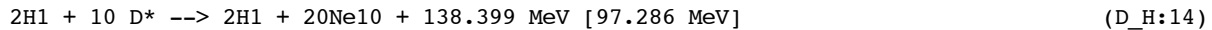
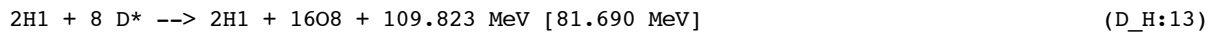
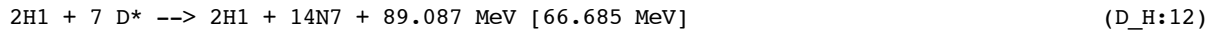
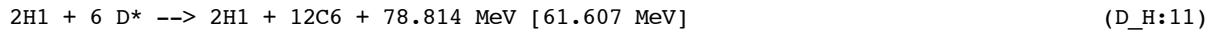
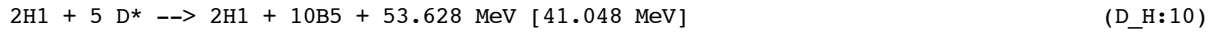
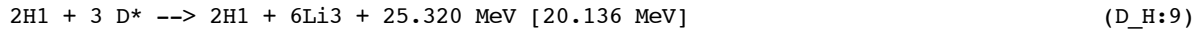
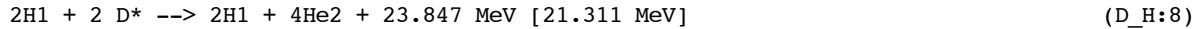
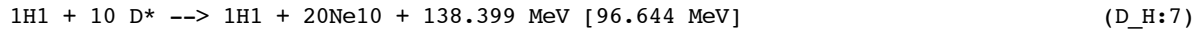
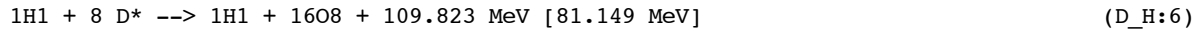
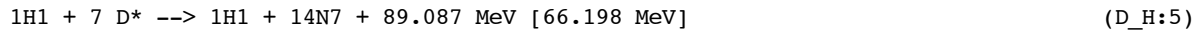
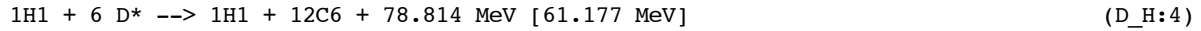
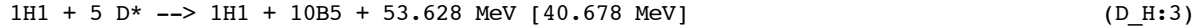
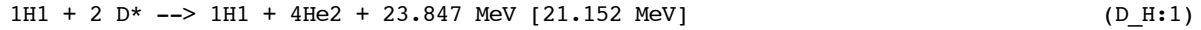
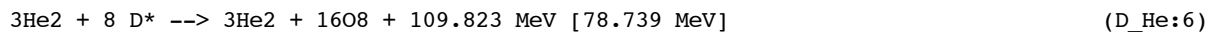
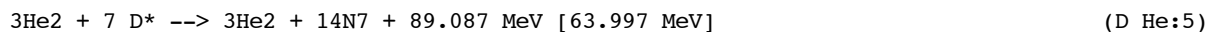
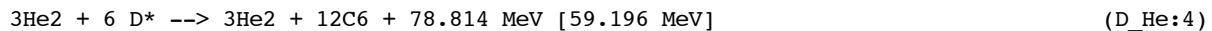
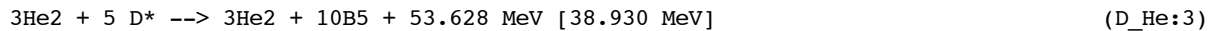
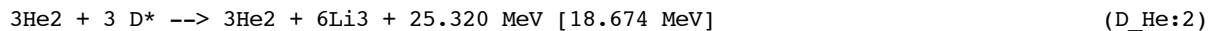
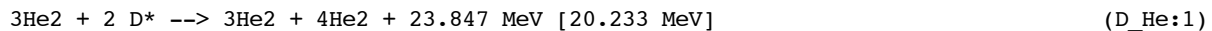


Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
Creating Stable Isotope Z Via Nuclear Catalytic Action

----- Equations follow for Deuterium, H, element 1 -----



----- Equations follow for Helium, He, element 2 -----



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 Creating Stable Isotope Z Via Nuclear Catalytic Action

3He2 + 10 D\* --> 3He2 + 20Ne10 + 138.399 MeV [93.840 MeV] (D\_He:7)

4He2 + 2 D\* --> 4He2 + 4He2 + 23.847 MeV [20.391 MeV] (D\_He:8)

4He2 + 3 D\* --> 4He2 + 6Li3 + 25.320 MeV [18.904 MeV] (D\_He:9)

4He2 + 5 D\* --> 4He2 + 10B5 + 53.628 MeV [39.288 MeV] (D\_He:10)

4He2 + 6 D\* --> 4He2 + 12C6 + 78.814 MeV [59.613 MeV] (D\_He:11)

4He2 + 7 D\* --> 4He2 + 14N7 + 89.087 MeV [64.471 MeV] (D\_He:12)

4He2 + 8 D\* --> 4He2 + 16O8 + 109.823 MeV [79.266 MeV] (D\_He:13)

4He2 + 10 D\* --> 4He2 + 20Ne10 + 138.399 MeV [94.468 MeV] (D\_He:14)

----- Equations follow for Lithium, Li, element 3 -----

6Li3 + 2 D\* --> 6Li3 + 4He2 + 23.847 MeV [19.569 MeV] (D\_Li:1)

6Li3 + 3 D\* --> 6Li3 + 6Li3 + 25.320 MeV [17.773 MeV] (D\_Li:2)

6Li3 + 5 D\* --> 6Li3 + 10B5 + 53.628 MeV [37.627 MeV] (D\_Li:3)

6Li3 + 6 D\* --> 6Li3 + 12C6 + 78.814 MeV [57.715 MeV] (D\_Li:4)

6Li3 + 7 D\* --> 6Li3 + 14N7 + 89.087 MeV [62.349 MeV] (D\_Li:5)

6Li3 + 8 D\* --> 6Li3 + 16O8 + 109.823 MeV [76.932 MeV] (D\_Li:6)

6Li3 + 10 D\* --> 6Li3 + 20Ne10 + 138.399 MeV [91.736 MeV] (D\_Li:7)

7Li3 + 2 D\* --> 7Li3 + 4He2 + 23.847 MeV [19.703 MeV] (D\_Li:8)

7Li3 + 3 D\* --> 7Li3 + 6Li3 + 25.320 MeV [17.971 MeV] (D\_Li:9)

7Li3 + 5 D\* --> 7Li3 + 10B5 + 53.628 MeV [37.947 MeV] (D\_Li:10)

7Li3 + 6 D\* --> 7Li3 + 12C6 + 78.814 MeV [58.092 MeV] (D\_Li:11)

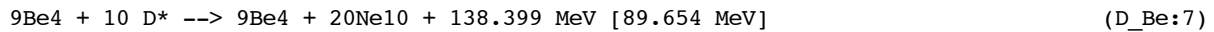
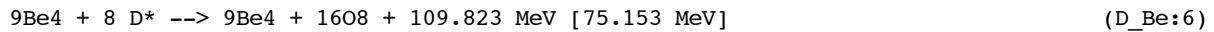
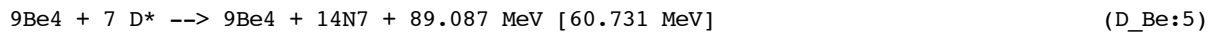
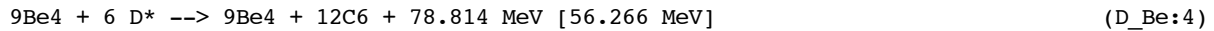
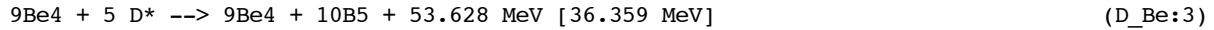
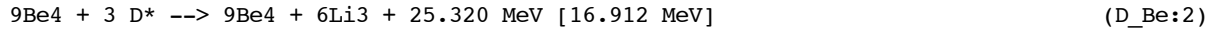
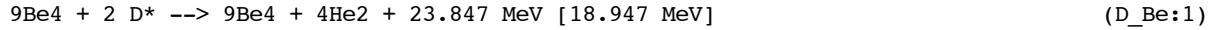
7Li3 + 7 D\* --> 7Li3 + 14N7 + 89.087 MeV [62.781 MeV] (D\_Li:12)

7Li3 + 8 D\* --> 7Li3 + 16O8 + 109.823 MeV [77.416 MeV] (D\_Li:13)

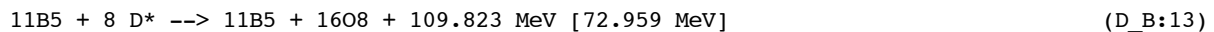
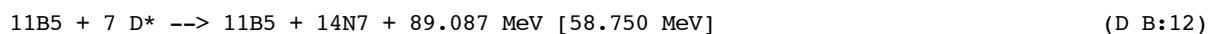
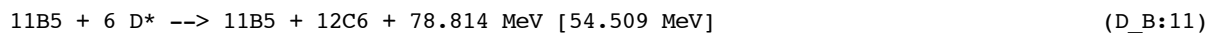
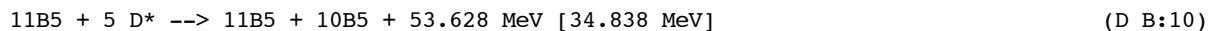
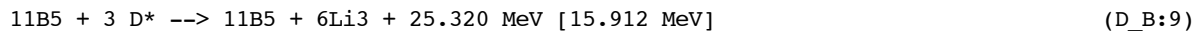
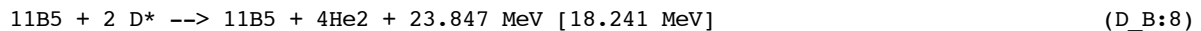
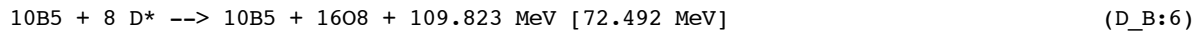
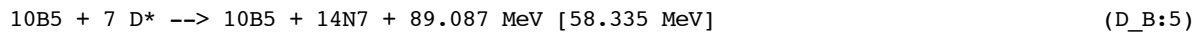
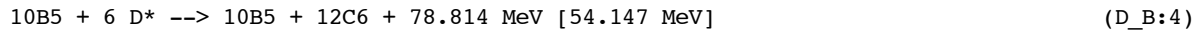
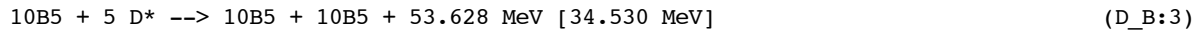
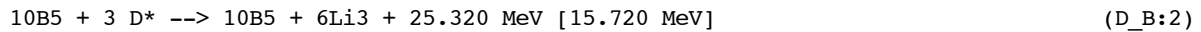
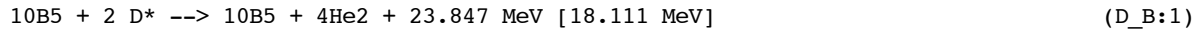
7Li3 + 10 D\* --> 7Li3 + 20Ne10 + 138.399 MeV [92.319 MeV] (D\_Li:14)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
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----- Equations follow for Beryllium, Be, element 4 -----



----- Equations follow for Boron, B, element 5 -----



Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
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11B5 + 10 D\* --> 11B5 + 20Ne10 + 138.399 MeV [87.059 MeV] (D\_B:14)

----- Equations follow for Carbon, C, element 6 -----

12C6 + 2 D\* --> 12C6 + 4He2 + 23.847 MeV [17.446 MeV] (D\_C:1)

12C6 + 3 D\* --> 12C6 + 6Li3 + 25.320 MeV [14.771 MeV] (D\_C:2)

12C6 + 5 D\* --> 12C6 + 10B5 + 53.628 MeV [33.071 MeV] (D\_C:3)

12C6 + 6 D\* --> 12C6 + 12C6 + 78.814 MeV [52.456 MeV] (D\_C:4)

12C6 + 7 D\* --> 12C6 + 14N7 + 89.087 MeV [56.422 MeV] (D\_C:5)

12C6 + 8 D\* --> 12C6 + 16O8 + 109.823 MeV [70.368 MeV] (D\_C:6)

12C6 + 10 D\* --> 12C6 + 20Ne10 + 138.399 MeV [83.971 MeV] (D\_C:7)

13C6 + 2 D\* --> 13C6 + 4He2 + 23.847 MeV [17.574 MeV] (D\_C:8)

13C6 + 3 D\* --> 13C6 + 6Li3 + 25.320 MeV [14.959 MeV] (D\_C:9)

13C6 + 5 D\* --> 13C6 + 10B5 + 53.628 MeV [33.374 MeV] (D\_C:10)

13C6 + 6 D\* --> 13C6 + 12C6 + 78.814 MeV [52.812 MeV] (D\_C:11)

13C6 + 7 D\* --> 13C6 + 14N7 + 89.087 MeV [56.831 MeV] (D\_C:12)

13C6 + 8 D\* --> 13C6 + 16O8 + 109.823 MeV [70.827 MeV] (D\_C:13)

13C6 + 10 D\* --> 13C6 + 20Ne10 + 138.399 MeV [84.526 MeV] (D\_C:14)

----- Equations follow for Nitrogen, N, element 7 -----

14N7 + 2 D\* --> 14N7 + 4He2 + 23.847 MeV [16.813 MeV] (D\_N:1)

14N7 + 3 D\* --> 14N7 + 6Li3 + 25.320 MeV [13.862 MeV] (D\_N:2)

14N7 + 5 D\* --> 14N7 + 10B5 + 53.628 MeV [31.662 MeV] (D\_N:3)

14N7 + 6 D\* --> 14N7 + 12C6 + 78.814 MeV [50.816 MeV] (D\_N:4)

14N7 + 7 D\* --> 14N7 + 14N7 + 89.087 MeV [54.564 MeV] (D\_N:5)

14N7 + 8 D\* --> 14N7 + 16O8 + 109.823 MeV [68.299 MeV] (D\_N:6)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
 Creating Stable Isotope Z Via Nuclear Catalytic Action

14N7 + 10 D\* --> 14N7 + 20Ne10 + 138.399 MeV [81.503 MeV] (D\_N:7)

15N7 + 2 D\* --> 15N7 + 4He2 + 23.847 MeV [16.939 MeV] (D\_N:8)

15N7 + 3 D\* --> 15N7 + 6Li3 + 25.320 MeV [14.046 MeV] (D\_N:9)

15N7 + 5 D\* --> 15N7 + 10B5 + 53.628 MeV [31.959 MeV] (D\_N:10)

15N7 + 6 D\* --> 15N7 + 12C6 + 78.814 MeV [51.166 MeV] (D\_N:11)

15N7 + 7 D\* --> 15N7 + 14N7 + 89.087 MeV [54.965 MeV] (D\_N:12)

15N7 + 8 D\* --> 15N7 + 16O8 + 109.823 MeV [68.750 MeV] (D\_N:13)

15N7 + 10 D\* --> 15N7 + 20Ne10 + 138.399 MeV [82.051 MeV] (D\_N:14)

----- Equations follow for Oxygen, O, element 8 -----

16O8 + 2 D\* --> 16O8 + 4He2 + 23.847 MeV [16.207 MeV] (D\_O:1)

16O8 + 3 D\* --> 16O8 + 6Li3 + 25.320 MeV [12.986 MeV] (D\_O:2)

16O8 + 5 D\* --> 16O8 + 10B5 + 53.628 MeV [30.296 MeV] (D\_O:3)

16O8 + 6 D\* --> 16O8 + 12C6 + 78.814 MeV [49.223 MeV] (D\_O:4)

16O8 + 7 D\* --> 16O8 + 14N7 + 89.087 MeV [52.753 MeV] (D\_O:5)

16O8 + 8 D\* --> 16O8 + 16O8 + 109.823 MeV [66.280 MeV] (D\_O:6)

16O8 + 10 D\* --> 16O8 + 20Ne10 + 138.399 MeV [79.088 MeV] (D\_O:7)

17O8 + 2 D\* --> 17O8 + 4He2 + 23.847 MeV [16.331 MeV] (D\_O:8)

17O8 + 3 D\* --> 17O8 + 6Li3 + 25.320 MeV [13.168 MeV] (D\_O:9)

17O8 + 5 D\* --> 17O8 + 10B5 + 53.628 MeV [30.588 MeV] (D\_O:10)

17O8 + 6 D\* --> 17O8 + 12C6 + 78.814 MeV [49.567 MeV] (D\_O:11)

17O8 + 7 D\* --> 17O8 + 14N7 + 89.087 MeV [53.148 MeV] (D\_O:12)

17O8 + 8 D\* --> 17O8 + 16O8 + 109.823 MeV [66.724 MeV] (D\_O:13)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
Creating Stable Isotope Z Via Nuclear Catalytic Action

17O8 + 10 D\* --> 17O8 + 20Ne10 + 138.399 MeV [79.628 MeV] (D\_O:14)

18O8 + 2 D\* --> 18O8 + 4He2 + 23.847 MeV [16.446 MeV] (D\_O:15)

18O8 + 3 D\* --> 18O8 + 6Li3 + 25.320 MeV [13.339 MeV] (D\_O:16)

18O8 + 5 D\* --> 18O8 + 10B5 + 53.628 MeV [30.865 MeV] (D\_O:17)

18O8 + 6 D\* --> 18O8 + 12C6 + 78.814 MeV [49.896 MeV] (D\_O:18)

18O8 + 7 D\* --> 18O8 + 14N7 + 89.087 MeV [53.527 MeV] (D\_O:19)

18O8 + 8 D\* --> 18O8 + 16O8 + 109.823 MeV [67.151 MeV] (D\_O:20)

18O8 + 10 D\* --> 18O8 + 20Ne10 + 138.399 MeV [80.148 MeV] (D\_O:21)

----- Equations follow for Fluorine, F, element 9 -----

19F9 + 2 D\* --> 19F9 + 4He2 + 23.847 MeV [15.745 MeV] (D\_F:1)

19F9 + 3 D\* --> 19F9 + 6Li3 + 25.320 MeV [12.319 MeV] (D\_F:2)

19F9 + 5 D\* --> 19F9 + 10B5 + 53.628 MeV [29.255 MeV] (D\_F:3)

19F9 + 6 D\* --> 19F9 + 12C6 + 78.814 MeV [48.010 MeV] (D\_F:4)

19F9 + 7 D\* --> 19F9 + 14N7 + 89.087 MeV [51.375 MeV] (D\_F:5)

19F9 + 8 D\* --> 19F9 + 16O8 + 109.823 MeV [64.744 MeV] (D\_F:6)

19F9 + 10 D\* --> 19F9 + 20Ne10 + 138.399 MeV [77.253 MeV] (D\_F:7)

----- Equations follow for Neon, Ne, element 10 -----

20Ne10 + 2 D\* --> 20Ne10 + 4He2 + 23.847 MeV [15.060 MeV] (D\_Ne:1)

20Ne10 + 3 D\* --> 20Ne10 + 6Li3 + 25.320 MeV [11.321 MeV] (D\_Ne:2)

20Ne10 + 5 D\* --> 20Ne10 + 10B5 + 53.628 MeV [27.676 MeV] (D\_Ne:3)

20Ne10 + 6 D\* --> 20Ne10 + 12C6 + 78.814 MeV [46.157 MeV] (D\_Ne:4)

20Ne10 + 7 D\* --> 20Ne10 + 14N7 + 89.087 MeV [49.260 MeV] (D\_Ne:5)

20Ne10 + 8 D\* --> 20Ne10 + 16O8 + 109.823 MeV [62.374 MeV] (D\_Ne:6)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
 Creating Stable Isotope Z Via Nuclear Catalytic Action

20Ne10 + 10 D\* --> 20Ne10 + 20Ne10 + 138.399 MeV [74.398 MeV] (D\_Ne:7)

21Ne10 + 2 D\* --> 21Ne10 + 4He2 + 23.847 MeV [15.179 MeV] (D\_Ne:8)

21Ne10 + 3 D\* --> 21Ne10 + 6Li3 + 25.320 MeV [11.496 MeV] (D\_Ne:9)

21Ne10 + 5 D\* --> 21Ne10 + 10B5 + 53.628 MeV [27.958 MeV] (D\_Ne:10)

21Ne10 + 6 D\* --> 21Ne10 + 12C6 + 78.814 MeV [46.490 MeV] (D\_Ne:11)

21Ne10 + 7 D\* --> 21Ne10 + 14N7 + 89.087 MeV [49.643 MeV] (D\_Ne:12)

21Ne10 + 8 D\* --> 21Ne10 + 16O8 + 109.823 MeV [62.805 MeV] (D\_Ne:13)

21Ne10 + 10 D\* --> 21Ne10 + 20Ne10 + 138.399 MeV [74.923 MeV] (D\_Ne:14)

22Ne10 + 2 D\* --> 22Ne10 + 4He2 + 23.847 MeV [15.292 MeV] (D\_Ne:15)

22Ne10 + 3 D\* --> 22Ne10 + 6Li3 + 25.320 MeV [11.663 MeV] (D\_Ne:16)

22Ne10 + 5 D\* --> 22Ne10 + 10B5 + 53.628 MeV [28.228 MeV] (D\_Ne:17)

22Ne10 + 6 D\* --> 22Ne10 + 12C6 + 78.814 MeV [46.810 MeV] (D\_Ne:18)

22Ne10 + 7 D\* --> 22Ne10 + 14N7 + 89.087 MeV [50.011 MeV] (D\_Ne:19)

22Ne10 + 8 D\* --> 22Ne10 + 16O8 + 109.823 MeV [63.222 MeV] (D\_Ne:20)

22Ne10 + 10 D\* --> 22Ne10 + 20Ne10 + 138.399 MeV [75.431 MeV] (D\_Ne:21)

----- Equations follow for Sodium, Na, element 11 -----

23Na11 + 2 D\* --> 23Na11 + 4He2 + 23.847 MeV [14.631 MeV] (D\_Na:1)

23Na11 + 3 D\* --> 23Na11 + 6Li3 + 25.320 MeV [10.697 MeV] (D\_Na:2)

23Na11 + 5 D\* --> 23Na11 + 10B5 + 53.628 MeV [26.691 MeV] (D\_Na:3)

23Na11 + 6 D\* --> 23Na11 + 12C6 + 78.814 MeV [45.005 MeV] (D\_Na:4)

23Na11 + 7 D\* --> 23Na11 + 14N7 + 89.087 MeV [47.947 MeV] (D\_Na:5)

23Na11 + 8 D\* --> 23Na11 + 16O8 + 109.823 MeV [60.906 MeV] (D\_Na:6)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
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$23\text{Na}11 + 10 \text{D}^* \rightarrow 23\text{Na}11 + 20\text{Ne}10 + 138.399 \text{ MeV} [72.634 \text{ MeV}]$  (D\_Na:7)

----- Equations follow for Magnesium, Mg, element 12 -----

$24\text{Mg}12 + 2 \text{D}^* \rightarrow 24\text{Mg}12 + 4\text{He}2 + 23.847 \text{ MeV} [13.983 \text{ MeV}]$  (D\_Mg:1)

$24\text{Mg}12 + 3 \text{D}^* \rightarrow 24\text{Mg}12 + 6\text{Li}3 + 25.320 \text{ MeV} [9.749 \text{ MeV}]$  (D\_Mg:2)

$24\text{Mg}12 + 5 \text{D}^* \rightarrow 24\text{Mg}12 + 10\text{B}5 + 53.628 \text{ MeV} [25.180 \text{ MeV}]$  (D\_Mg:3)

$24\text{Mg}12 + 6 \text{D}^* \rightarrow 24\text{Mg}12 + 12\text{C}6 + 78.814 \text{ MeV} [43.228 \text{ MeV}]$  (D\_Mg:4)

$24\text{Mg}12 + 7 \text{D}^* \rightarrow 24\text{Mg}12 + 14\text{N}7 + 89.087 \text{ MeV} [45.912 \text{ MeV}]$  (D\_Mg:5)

$24\text{Mg}12 + 8 \text{D}^* \rightarrow 24\text{Mg}12 + 16\text{O}8 + 109.823 \text{ MeV} [58.622 \text{ MeV}]$  (D\_Mg:6)

$24\text{Mg}12 + 10 \text{D}^* \rightarrow 24\text{Mg}12 + 20\text{Ne}10 + 138.399 \text{ MeV} [69.873 \text{ MeV}]$  (D\_Mg:7)

$25\text{Mg}12 + 2 \text{D}^* \rightarrow 25\text{Mg}12 + 4\text{He}2 + 23.847 \text{ MeV} [14.098 \text{ MeV}]$  (D\_Mg:8)

$25\text{Mg}12 + 3 \text{D}^* \rightarrow 25\text{Mg}12 + 6\text{Li}3 + 25.320 \text{ MeV} [9.918 \text{ MeV}]$  (D\_Mg:9)

$25\text{Mg}12 + 5 \text{D}^* \rightarrow 25\text{Mg}12 + 10\text{B}5 + 53.628 \text{ MeV} [25.454 \text{ MeV}]$  (D\_Mg:10)

$25\text{Mg}12 + 6 \text{D}^* \rightarrow 25\text{Mg}12 + 12\text{C}6 + 78.814 \text{ MeV} [43.551 \text{ MeV}]$  (D\_Mg:11)

$25\text{Mg}12 + 7 \text{D}^* \rightarrow 25\text{Mg}12 + 14\text{N}7 + 89.087 \text{ MeV} [46.284 \text{ MeV}]$  (D\_Mg:12)

$25\text{Mg}12 + 8 \text{D}^* \rightarrow 25\text{Mg}12 + 16\text{O}8 + 109.823 \text{ MeV} [59.042 \text{ MeV}]$  (D\_Mg:13)

$25\text{Mg}12 + 10 \text{D}^* \rightarrow 25\text{Mg}12 + 20\text{Ne}10 + 138.399 \text{ MeV} [70.385 \text{ MeV}]$  (D\_Mg:14)

$26\text{Mg}12 + 2 \text{D}^* \rightarrow 26\text{Mg}12 + 4\text{He}2 + 23.847 \text{ MeV} [14.207 \text{ MeV}]$  (D\_Mg:15)

$26\text{Mg}12 + 3 \text{D}^* \rightarrow 26\text{Mg}12 + 6\text{Li}3 + 25.320 \text{ MeV} [10.080 \text{ MeV}]$  (D\_Mg:16)

$26\text{Mg}12 + 5 \text{D}^* \rightarrow 26\text{Mg}12 + 10\text{B}5 + 53.628 \text{ MeV} [25.717 \text{ MeV}]$  (D\_Mg:17)

$26\text{Mg}12 + 6 \text{D}^* \rightarrow 26\text{Mg}12 + 12\text{C}6 + 78.814 \text{ MeV} [43.863 \text{ MeV}]$  (D\_Mg:18)

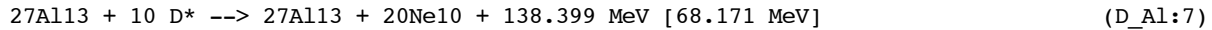
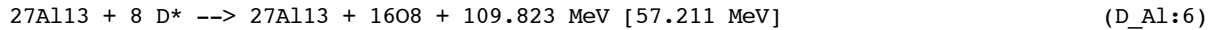
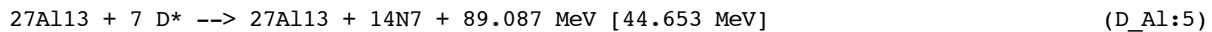
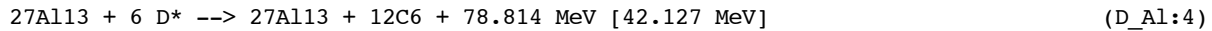
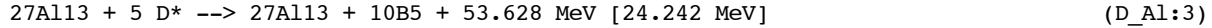
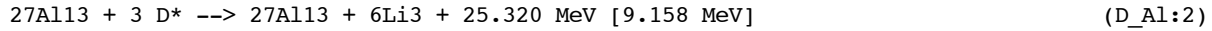
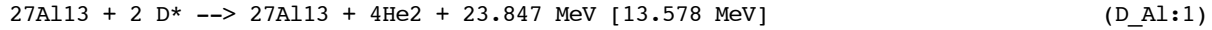
$26\text{Mg}12 + 7 \text{D}^* \rightarrow 26\text{Mg}12 + 14\text{N}7 + 89.087 \text{ MeV} [46.644 \text{ MeV}]$  (D\_Mg:19)

$26\text{Mg}12 + 8 \text{D}^* \rightarrow 26\text{Mg}12 + 16\text{O}8 + 109.823 \text{ MeV} [59.448 \text{ MeV}]$  (D\_Mg:20)

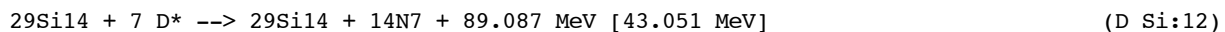
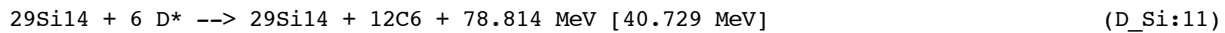
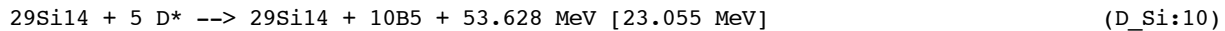
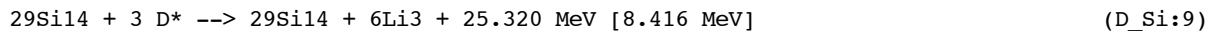
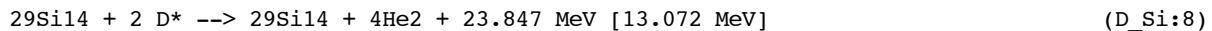
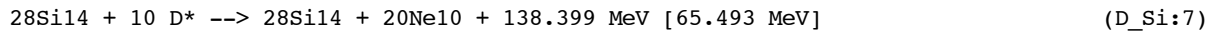
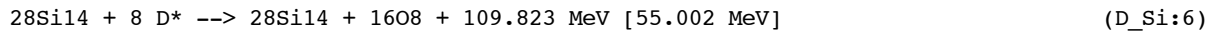
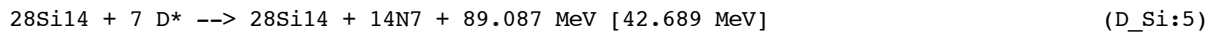
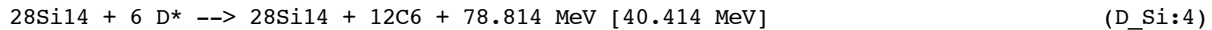
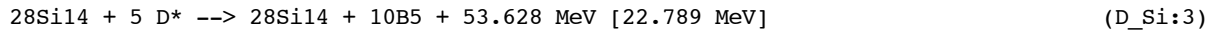
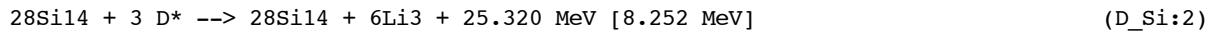
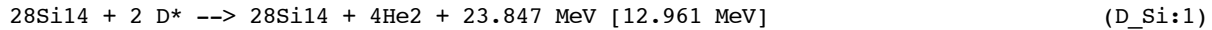
$26\text{Mg}12 + 10 \text{D}^* \rightarrow 26\text{Mg}12 + 20\text{Ne}10 + 138.399 \text{ MeV} [70.881 \text{ MeV}]$  (D\_Mg:21)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
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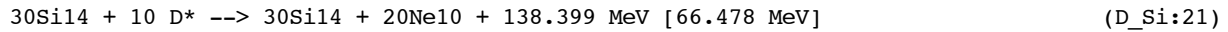
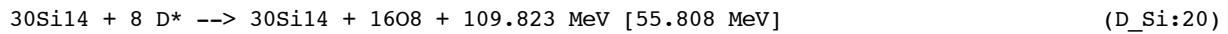
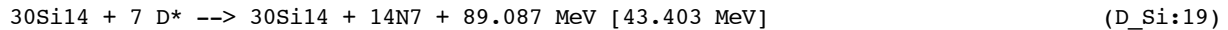
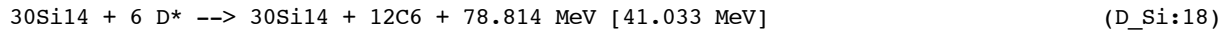
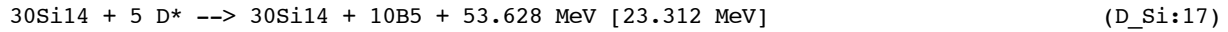
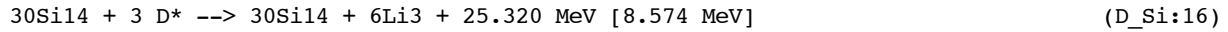
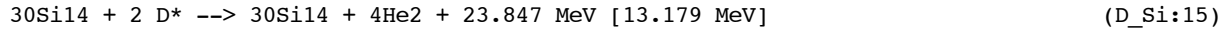
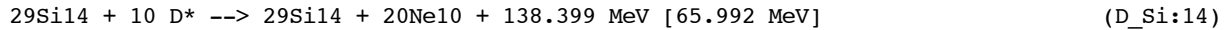
----- Equations follow for Aluminum, Al, element 13 -----



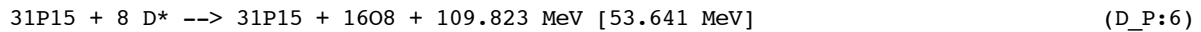
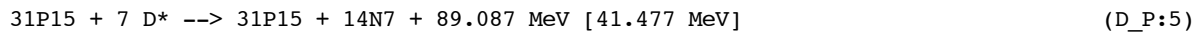
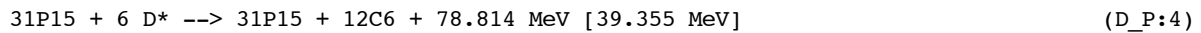
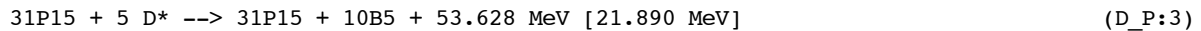
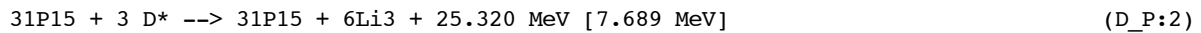
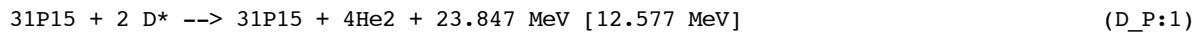
----- Equations follow for Silicon, Si, element 14 -----



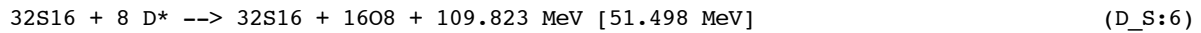
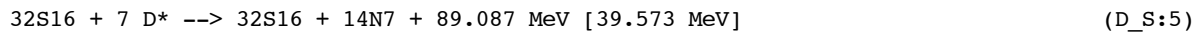
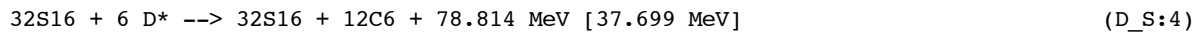
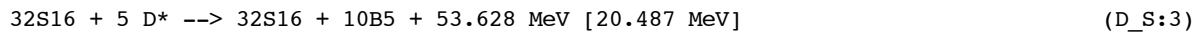
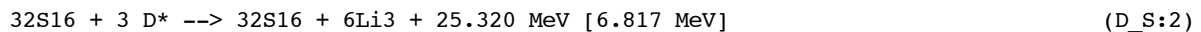
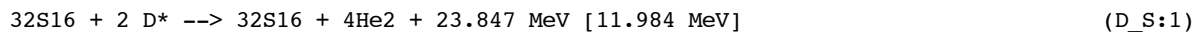
Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
 Creating Stable Isotope Z Via Nuclear Catalytic Action



----- Equations follow for Phosphorus, P, element 15 -----



----- Equations follow for Sulphur, S, element 16 -----

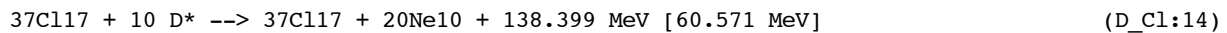
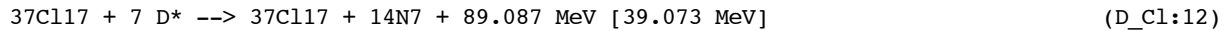
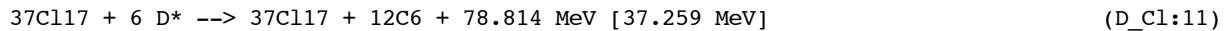
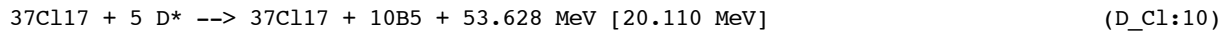
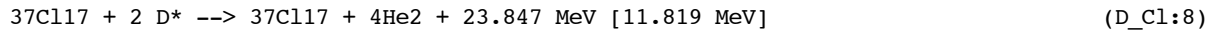
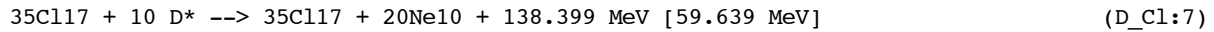
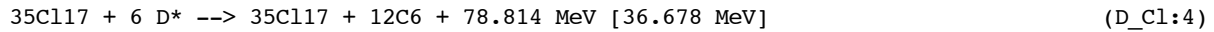
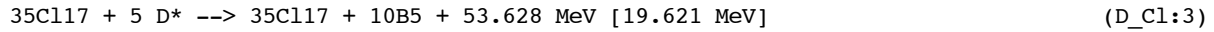
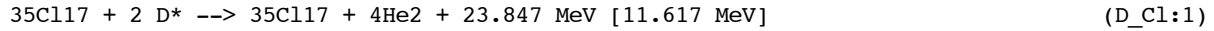


Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
Creating Stable Isotope Z Via Nuclear Catalytic Action

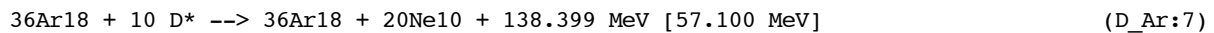
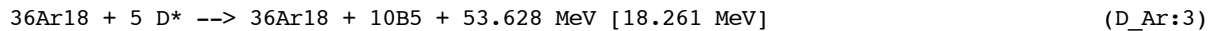
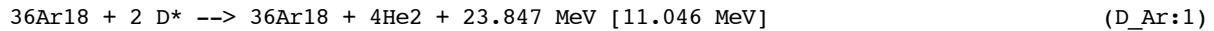
32S16 + 10 D* --> 32S16 + 20Ne10 + 138.399 MeV [61.239 MeV]	(D_S:7)
33S16 + 2 D* --> 33S16 + 4He2 + 23.847 MeV [12.092 MeV]	(D_S:8)
33S16 + 3 D* --> 33S16 + 6Li3 + 25.320 MeV [6.976 MeV]	(D_S:9)
33S16 + 5 D* --> 33S16 + 10B5 + 53.628 MeV [20.746 MeV]	(D_S:10)
33S16 + 6 D* --> 33S16 + 12C6 + 78.814 MeV [38.006 MeV]	(D_S:11)
33S16 + 7 D* --> 33S16 + 14N7 + 89.087 MeV [39.927 MeV]	(D_S:12)
33S16 + 8 D* --> 33S16 + 16O8 + 109.823 MeV [51.897 MeV]	(D_S:13)
33S16 + 10 D* --> 33S16 + 20Ne10 + 138.399 MeV [61.728 MeV]	(D_S:14)
34S16 + 2 D* --> 34S16 + 4He2 + 23.847 MeV [12.196 MeV]	(D_S:15)
34S16 + 3 D* --> 34S16 + 6Li3 + 25.320 MeV [7.131 MeV]	(D_S:16)
34S16 + 5 D* --> 34S16 + 10B5 + 53.628 MeV [20.997 MeV]	(D_S:17)
34S16 + 6 D* --> 34S16 + 12C6 + 78.814 MeV [38.304 MeV]	(D_S:18)
34S16 + 7 D* --> 34S16 + 14N7 + 89.087 MeV [40.271 MeV]	(D_S:19)
34S16 + 8 D* --> 34S16 + 16O8 + 109.823 MeV [52.286 MeV]	(D_S:20)
34S16 + 10 D* --> 34S16 + 20Ne10 + 138.399 MeV [62.204 MeV]	(D_S:21)
36S16 + 2 D* --> 36S16 + 4He2 + 23.847 MeV [12.394 MeV]	(D_S:22)
36S16 + 3 D* --> 36S16 + 6Li3 + 25.320 MeV [7.424 MeV]	(D_S:23)
36S16 + 5 D* --> 36S16 + 10B5 + 53.628 MeV [21.476 MeV]	(D_S:24)
36S16 + 6 D* --> 36S16 + 12C6 + 78.814 MeV [38.874 MeV]	(D_S:25)
36S16 + 7 D* --> 36S16 + 14N7 + 89.087 MeV [40.931 MeV]	(D_S:26)
36S16 + 8 D* --> 36S16 + 16O8 + 109.823 MeV [53.033 MeV]	(D_S:27)
36S16 + 10 D* --> 36S16 + 20Ne10 + 138.399 MeV [63.122 MeV]	(D_S:28)

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----- Equations follow for Chlorine, Cl, element 17 -----



----- Equations follow for Argon, Ar, element 18 -----



Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
 Creating Stable Isotope Z Via Nuclear Catalytic Action

38Ar18 + 2 D\* --> 38Ar18 + 4He2 + 23.847 MeV [11.253 MeV] (D\_Ar:8)

38Ar18 + 3 D\* --> 38Ar18 + 6Li3 + 25.320 MeV [5.742 MeV] (D\_Ar:9)

38Ar18 + 5 D\* --> 38Ar18 + 10B5 + 53.628 MeV [18.760 MeV] (D\_Ar:10)

38Ar18 + 6 D\* --> 38Ar18 + 12C6 + 78.814 MeV [35.662 MeV] (D\_Ar:11)

38Ar18 + 7 D\* --> 38Ar18 + 14N7 + 89.087 MeV [37.235 MeV] (D\_Ar:12)

38Ar18 + 8 D\* --> 38Ar18 + 16O8 + 109.823 MeV [48.867 MeV] (D\_Ar:13)

38Ar18 + 10 D\* --> 38Ar18 + 20Ne10 + 138.399 MeV [58.045 MeV] (D\_Ar:14)

40Ar18 + 2 D\* --> 40Ar18 + 4He2 + 23.847 MeV [11.447 MeV] (D\_Ar:15)

40Ar18 + 3 D\* --> 40Ar18 + 6Li3 + 25.320 MeV [6.030 MeV] (D\_Ar:16)

40Ar18 + 5 D\* --> 40Ar18 + 10B5 + 53.628 MeV [19.231 MeV] (D\_Ar:17)

40Ar18 + 6 D\* --> 40Ar18 + 12C6 + 78.814 MeV [36.222 MeV] (D\_Ar:18)

40Ar18 + 7 D\* --> 40Ar18 + 14N7 + 89.087 MeV [37.883 MeV] (D\_Ar:19)

40Ar18 + 8 D\* --> 40Ar18 + 16O8 + 109.823 MeV [49.601 MeV] (D\_Ar:20)

40Ar18 + 10 D\* --> 40Ar18 + 20Ne10 + 138.399 MeV [58.948 MeV] (D\_Ar:21)

----- Equations follow for Potassium, K, element 19 -----

39K19 + 2 D\* --> 39K19 + 4He2 + 23.847 MeV [10.694 MeV] (D\_K:1)

39K19 + 3 D\* --> 39K19 + 6Li3 + 25.320 MeV [4.916 MeV] (D\_K:2)

39K19 + 5 D\* --> 39K19 + 10B5 + 53.628 MeV [17.424 MeV] (D\_K:3)

39K19 + 6 D\* --> 39K19 + 12C6 + 78.814 MeV [34.082 MeV] (D\_K:4)

39K19 + 7 D\* --> 39K19 + 14N7 + 89.087 MeV [35.417 MeV] (D\_K:5)

39K19 + 8 D\* --> 39K19 + 16O8 + 109.823 MeV [46.815 MeV] (D\_K:6)

39K19 + 10 D\* --> 39K19 + 20Ne10 + 138.399 MeV [55.543 MeV] (D\_K:7)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
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40K19 + 2 D* --> 40K19 + 4He2 + 23.847 MeV [10.794 MeV]	(D_K:8)
40K19 + 3 D* --> 40K19 + 6Li3 + 25.320 MeV [5.065 MeV]	(D_K:9)
40K19 + 5 D* --> 40K19 + 10B5 + 53.628 MeV [17.667 MeV]	(D_K:10)
40K19 + 6 D* --> 40K19 + 12C6 + 78.814 MeV [34.370 MeV]	(D_K:11)
40K19 + 7 D* --> 40K19 + 14N7 + 89.087 MeV [35.750 MeV]	(D_K:12)
40K19 + 8 D* --> 40K19 + 16O8 + 109.823 MeV [47.192 MeV]	(D_K:13)
40K19 + 10 D* --> 40K19 + 20Ne10 + 138.399 MeV [56.006 MeV]	(D_K:14)
41K19 + 2 D* --> 41K19 + 4He2 + 23.847 MeV [10.891 MeV]	(D_K:15)
41K19 + 3 D* --> 41K19 + 6Li3 + 25.320 MeV [5.210 MeV]	(D_K:16)
41K19 + 5 D* --> 41K19 + 10B5 + 53.628 MeV [17.904 MeV]	(D_K:17)
41K19 + 6 D* --> 41K19 + 12C6 + 78.814 MeV [34.652 MeV]	(D_K:18)
41K19 + 7 D* --> 41K19 + 14N7 + 89.087 MeV [36.075 MeV]	(D_K:19)
41K19 + 8 D* --> 41K19 + 16O8 + 109.823 MeV [47.561 MeV]	(D_K:20)
41K19 + 10 D* --> 41K19 + 20Ne10 + 138.399 MeV [56.458 MeV]	(D_K:21)
----- Equations follow for Calcium, Ca, element 20 -----	
40Ca20 + 2 D* --> 40Ca20 + 4He2 + 23.847 MeV [10.141 MeV]	(D_Ca:1)
40Ca20 + 3 D* --> 40Ca20 + 6Li3 + 25.320 MeV [4.100 MeV]	(D_Ca:2)
40Ca20 + 5 D* --> 40Ca20 + 10B5 + 53.628 MeV [16.104 MeV]	(D_Ca:3)
40Ca20 + 6 D* --> 40Ca20 + 12C6 + 78.814 MeV [32.518 MeV]	(D_Ca:4)
40Ca20 + 7 D* --> 40Ca20 + 14N7 + 89.087 MeV [33.616 MeV]	(D_Ca:5)
40Ca20 + 8 D* --> 40Ca20 + 16O8 + 109.823 MeV [44.783 MeV]	(D_Ca:6)
40Ca20 + 10 D* --> 40Ca20 + 20Ne10 + 138.399 MeV [53.063 MeV]	(D_Ca:7)

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42Ca20 + 2 D* --> 42Ca20 + 4He2 + 23.847 MeV [10.343 MeV]	(D_Ca:8)
42Ca20 + 3 D* --> 42Ca20 + 6Li3 + 25.320 MeV [4.399 MeV]	(D_Ca:9)
42Ca20 + 5 D* --> 42Ca20 + 10B5 + 53.628 MeV [16.591 MeV]	(D_Ca:10)
42Ca20 + 6 D* --> 42Ca20 + 12C6 + 78.814 MeV [33.097 MeV]	(D_Ca:11)
42Ca20 + 7 D* --> 42Ca20 + 14N7 + 89.087 MeV [34.285 MeV]	(D_Ca:12)
42Ca20 + 8 D* --> 42Ca20 + 16O8 + 109.823 MeV [45.540 MeV]	(D_Ca:13)
42Ca20 + 10 D* --> 42Ca20 + 20Ne10 + 138.399 MeV [53.991 MeV]	(D_Ca:14)
43Ca20 + 2 D* --> 43Ca20 + 4He2 + 23.847 MeV [10.439 MeV]	(D_Ca:15)
43Ca20 + 3 D* --> 43Ca20 + 6Li3 + 25.320 MeV [4.543 MeV]	(D_Ca:16)
43Ca20 + 5 D* --> 43Ca20 + 10B5 + 53.628 MeV [16.826 MeV]	(D_Ca:17)
43Ca20 + 6 D* --> 43Ca20 + 12C6 + 78.814 MeV [33.376 MeV]	(D_Ca:18)
43Ca20 + 7 D* --> 43Ca20 + 14N7 + 89.087 MeV [34.607 MeV]	(D_Ca:19)
43Ca20 + 8 D* --> 43Ca20 + 16O8 + 109.823 MeV [45.905 MeV]	(D_Ca:20)
43Ca20 + 10 D* --> 43Ca20 + 20Ne10 + 138.399 MeV [54.440 MeV]	(D_Ca:21)
44Ca20 + 2 D* --> 44Ca20 + 4He2 + 23.847 MeV [10.533 MeV]	(D_Ca:22)
44Ca20 + 3 D* --> 44Ca20 + 6Li3 + 25.320 MeV [4.682 MeV]	(D_Ca:23)
44Ca20 + 5 D* --> 44Ca20 + 10B5 + 53.628 MeV [17.054 MeV]	(D_Ca:24)
44Ca20 + 6 D* --> 44Ca20 + 12C6 + 78.814 MeV [33.648 MeV]	(D_Ca:25)
44Ca20 + 7 D* --> 44Ca20 + 14N7 + 89.087 MeV [34.922 MeV]	(D_Ca:26)
44Ca20 + 8 D* --> 44Ca20 + 16O8 + 109.823 MeV [46.262 MeV]	(D_Ca:27)
44Ca20 + 10 D* --> 44Ca20 + 20Ne10 + 138.399 MeV [54.879 MeV]	(D_Ca:28)
46Ca20 + 2 D* --> 46Ca20 + 4He2 + 23.847 MeV [10.713 MeV]	(D_Ca:29)
46Ca20 + 3 D* --> 46Ca20 + 6Li3 + 25.320 MeV [4.950 MeV]	(D_Ca:30)

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46Ca20 + 5 D\* --> 46Ca20 + 10B5 + 53.628 MeV [17.495 MeV] (D\_Ca:31)

46Ca20 + 6 D\* --> 46Ca20 + 12C6 + 78.814 MeV [34.173 MeV] (D\_Ca:32)

46Ca20 + 7 D\* --> 46Ca20 + 14N7 + 89.087 MeV [35.531 MeV] (D\_Ca:33)

46Ca20 + 8 D\* --> 46Ca20 + 16O8 + 109.823 MeV [46.953 MeV] (D\_Ca:34)

46Ca20 + 10 D\* --> 46Ca20 + 20Ne10 + 138.399 MeV [55.731 MeV] (D\_Ca:35)

48Ca20 + 2 D\* --> 48Ca20 + 4He2 + 23.847 MeV [10.884 MeV] (D\_Ca:36)

48Ca20 + 3 D\* --> 48Ca20 + 6Li3 + 25.320 MeV [5.205 MeV] (D\_Ca:37)

48Ca20 + 5 D\* --> 48Ca20 + 10B5 + 53.628 MeV [17.915 MeV] (D\_Ca:38)

48Ca20 + 6 D\* --> 48Ca20 + 12C6 + 78.814 MeV [34.675 MeV] (D\_Ca:39)

48Ca20 + 7 D\* --> 48Ca20 + 14N7 + 89.087 MeV [36.113 MeV] (D\_Ca:40)

48Ca20 + 8 D\* --> 48Ca20 + 16O8 + 109.823 MeV [47.615 MeV] (D\_Ca:41)

48Ca20 + 10 D\* --> 48Ca20 + 20Ne10 + 138.399 MeV [56.550 MeV] (D\_Ca:42)

----- Equations follow for Scandium, Sc, element 21 -----

45Sc21 + 2 D\* --> 45Sc21 + 4He2 + 23.847 MeV [9.995 MeV] (D\_Sc:1)

45Sc21 + 3 D\* --> 45Sc21 + 6Li3 + 25.320 MeV [3.886 MeV] (D\_Sc:2)

45Sc21 + 5 D\* --> 45Sc21 + 10B5 + 53.628 MeV [15.763 MeV] (D\_Sc:3)

45Sc21 + 6 D\* --> 45Sc21 + 12C6 + 78.814 MeV [32.118 MeV] (D\_Sc:4)

45Sc21 + 7 D\* --> 45Sc21 + 14N7 + 89.087 MeV [33.159 MeV] (D\_Sc:5)

45Sc21 + 8 D\* --> 45Sc21 + 16O8 + 109.823 MeV [44.270 MeV] (D\_Sc:6)

45Sc21 + 10 D\* --> 45Sc21 + 20Ne10 + 138.399 MeV [52.445 MeV] (D\_Sc:7)

----- Equations follow for Titanium, Ti, element 22 -----

46Ti22 + 2 D\* --> 46Ti22 + 4He2 + 23.847 MeV [9.462 MeV] (D\_Ti:1)

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46Ti22 + 3 D* --> 46Ti22 + 6Li3 + 25.320 MeV [3.098 MeV]	(D_Ti:2)
46Ti22 + 5 D* --> 46Ti22 + 10B5 + 53.628 MeV [14.484 MeV]	(D_Ti:3)
46Ti22 + 6 D* --> 46Ti22 + 12C6 + 78.814 MeV [30.602 MeV]	(D_Ti:4)
46Ti22 + 7 D* --> 46Ti22 + 14N7 + 89.087 MeV [31.411 MeV]	(D_Ti:5)
46Ti22 + 8 D* --> 46Ti22 + 16O8 + 109.823 MeV [42.296 MeV]	(D_Ti:6)
46Ti22 + 10 D* --> 46Ti22 + 20Ne10 + 138.399 MeV [50.030 MeV]	(D_Ti:7)
47Ti22 + 2 D* --> 47Ti22 + 4He2 + 23.847 MeV [9.557 MeV]	(D_Ti:8)
47Ti22 + 3 D* --> 47Ti22 + 6Li3 + 25.320 MeV [3.239 MeV]	(D_Ti:9)
47Ti22 + 5 D* --> 47Ti22 + 10B5 + 53.628 MeV [14.714 MeV]	(D_Ti:10)
47Ti22 + 6 D* --> 47Ti22 + 12C6 + 78.814 MeV [30.876 MeV]	(D_Ti:11)
47Ti22 + 7 D* --> 47Ti22 + 14N7 + 89.087 MeV [31.728 MeV]	(D_Ti:12)
47Ti22 + 8 D* --> 47Ti22 + 16O8 + 109.823 MeV [42.655 MeV]	(D_Ti:13)
47Ti22 + 10 D* --> 47Ti22 + 20Ne10 + 138.399 MeV [50.472 MeV]	(D_Ti:14)
48Ti22 + 2 D* --> 48Ti22 + 4He2 + 23.847 MeV [9.649 MeV]	(D_Ti:15)
48Ti22 + 3 D* --> 48Ti22 + 6Li3 + 25.320 MeV [3.376 MeV]	(D_Ti:16)
48Ti22 + 5 D* --> 48Ti22 + 10B5 + 53.628 MeV [14.939 MeV]	(D_Ti:17)
48Ti22 + 6 D* --> 48Ti22 + 12C6 + 78.814 MeV [31.144 MeV]	(D_Ti:18)
48Ti22 + 7 D* --> 48Ti22 + 14N7 + 89.087 MeV [32.038 MeV]	(D_Ti:19)
48Ti22 + 8 D* --> 48Ti22 + 16O8 + 109.823 MeV [43.007 MeV]	(D_Ti:20)
48Ti22 + 10 D* --> 48Ti22 + 20Ne10 + 138.399 MeV [50.905 MeV]	(D_Ti:21)
49Ti22 + 2 D* --> 49Ti22 + 4He2 + 23.847 MeV [9.739 MeV]	(D_Ti:22)
49Ti22 + 3 D* --> 49Ti22 + 6Li3 + 25.320 MeV [3.510 MeV]	(D_Ti:23)

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49Ti22 + 5 D\* --> 49Ti22 + 10B5 + 53.628 MeV [15.159 MeV] (D\_Ti:24)

49Ti22 + 6 D\* --> 49Ti22 + 12C6 + 78.814 MeV [31.406 MeV] (D\_Ti:25)

49Ti22 + 7 D\* --> 49Ti22 + 14N7 + 89.087 MeV [32.342 MeV] (D\_Ti:26)

49Ti22 + 8 D\* --> 49Ti22 + 16O8 + 109.823 MeV [43.351 MeV] (D\_Ti:27)

49Ti22 + 10 D\* --> 49Ti22 + 20Ne10 + 138.399 MeV [51.330 MeV] (D\_Ti:28)

50Ti22 + 2 D\* --> 50Ti22 + 4He2 + 23.847 MeV [9.827 MeV] (D\_Ti:29)

50Ti22 + 3 D\* --> 50Ti22 + 6Li3 + 25.320 MeV [3.641 MeV] (D\_Ti:30)

50Ti22 + 5 D\* --> 50Ti22 + 10B5 + 53.628 MeV [15.374 MeV] (D\_Ti:31)

50Ti22 + 6 D\* --> 50Ti22 + 12C6 + 78.814 MeV [31.662 MeV] (D\_Ti:32)

50Ti22 + 7 D\* --> 50Ti22 + 14N7 + 89.087 MeV [32.639 MeV] (D\_Ti:33)

50Ti22 + 8 D\* --> 50Ti22 + 16O8 + 109.823 MeV [43.689 MeV] (D\_Ti:34)

50Ti22 + 10 D\* --> 50Ti22 + 20Ne10 + 138.399 MeV [51.747 MeV] (D\_Ti:35)

----- Equations follow for Vanadium, V, element 23 -----

50V23 + 2 D\* --> 50V23 + 4He2 + 23.847 MeV [9.217 MeV] (D\_V:1)

50V23 + 3 D\* --> 50V23 + 6Li3 + 25.320 MeV [2.737 MeV] (D\_V:2)

50V23 + 5 D\* --> 50V23 + 10B5 + 53.628 MeV [13.902 MeV] (D\_V:3)

50V23 + 6 D\* --> 50V23 + 12C6 + 78.814 MeV [29.916 MeV] (D\_V:4)

50V23 + 7 D\* --> 50V23 + 14N7 + 89.087 MeV [30.623 MeV] (D\_V:5)

50V23 + 8 D\* --> 50V23 + 16O8 + 109.823 MeV [41.408 MeV] (D\_V:6)

50V23 + 10 D\* --> 50V23 + 20Ne10 + 138.399 MeV [48.951 MeV] (D\_V:7)

51V23 + 2 D\* --> 51V23 + 4He2 + 23.847 MeV [9.306 MeV] (D\_V:8)

51V23 + 3 D\* --> 51V23 + 6Li3 + 25.320 MeV [2.870 MeV] (D\_V:9)

51V23 + 5 D\* --> 51V23 + 10B5 + 53.628 MeV [14.121 MeV] (D\_V:10)

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51V23 + 6 D\* --> 51V23 + 12C6 + 78.814 MeV [30.176 MeV] (D\_V:11)

51V23 + 7 D\* --> 51V23 + 14N7 + 89.087 MeV [30.924 MeV] (D\_V:12)

51V23 + 8 D\* --> 51V23 + 16O8 + 109.823 MeV [41.750 MeV] (D\_V:13)

51V23 + 10 D\* --> 51V23 + 20Ne10 + 138.399 MeV [49.373 MeV] (D\_V:14)

----- Equations follow for Chromium, Cr, element 24 -----

50Cr24 + 2 D\* --> 50Cr24 + 4He2 + 23.847 MeV [8.607 MeV] (D\_Cr:1)

50Cr24 + 3 D\* --> 50Cr24 + 6Li3 + 25.320 MeV [1.834 MeV] (D\_Cr:2)

50Cr24 + 5 D\* --> 50Cr24 + 10B5 + 53.628 MeV [12.431 MeV] (D\_Cr:3)

50Cr24 + 6 D\* --> 50Cr24 + 12C6 + 78.814 MeV [28.169 MeV] (D\_Cr:4)

50Cr24 + 7 D\* --> 50Cr24 + 14N7 + 89.087 MeV [28.607 MeV] (D\_Cr:5)

50Cr24 + 8 D\* --> 50Cr24 + 16O8 + 109.823 MeV [39.128 MeV] (D\_Cr:6)

50Cr24 + 10 D\* --> 50Cr24 + 20Ne10 + 138.399 MeV [46.156 MeV] (D\_Cr:7)

52Cr24 + 2 D\* --> 52Cr24 + 4He2 + 23.847 MeV [8.791 MeV] (D\_Cr:8)

52Cr24 + 3 D\* --> 52Cr24 + 6Li3 + 25.320 MeV [2.107 MeV] (D\_Cr:9)

52Cr24 + 5 D\* --> 52Cr24 + 10B5 + 53.628 MeV [12.879 MeV] (D\_Cr:10)

52Cr24 + 6 D\* --> 52Cr24 + 12C6 + 78.814 MeV [28.702 MeV] (D\_Cr:11)

52Cr24 + 7 D\* --> 52Cr24 + 14N7 + 89.087 MeV [29.224 MeV] (D\_Cr:12)

52Cr24 + 8 D\* --> 52Cr24 + 16O8 + 109.823 MeV [39.828 MeV] (D\_Cr:13)

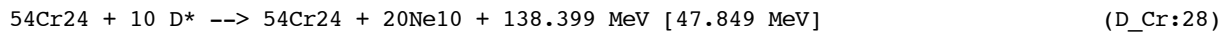
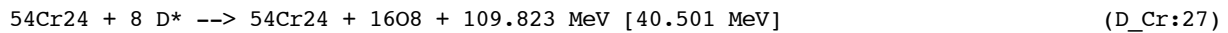
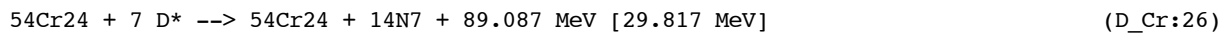
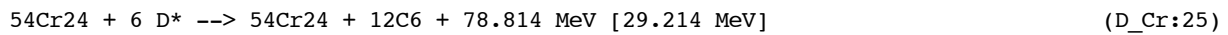
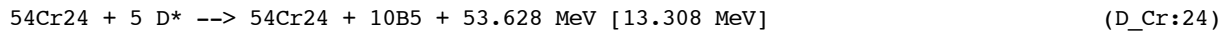
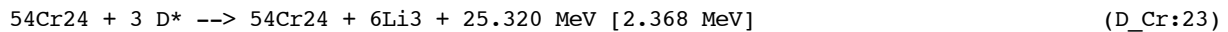
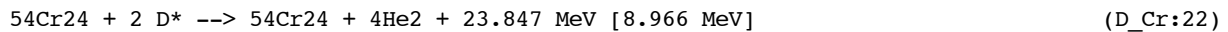
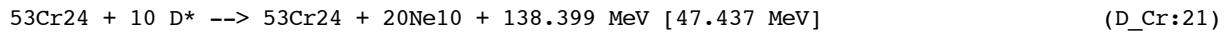
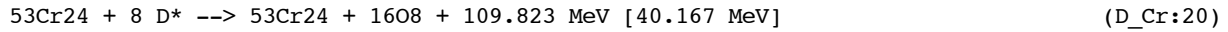
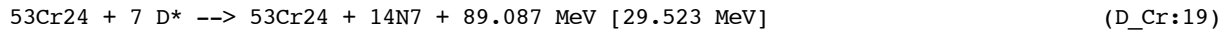
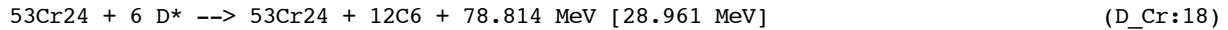
52Cr24 + 10 D\* --> 52Cr24 + 20Ne10 + 138.399 MeV [47.018 MeV] (D\_Cr:14)

53Cr24 + 2 D\* --> 53Cr24 + 4He2 + 23.847 MeV [8.880 MeV] (D\_Cr:15)

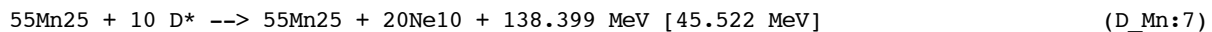
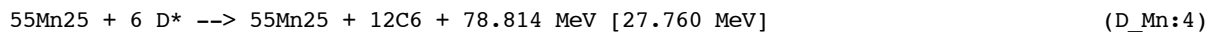
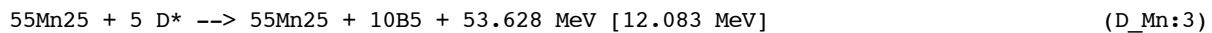
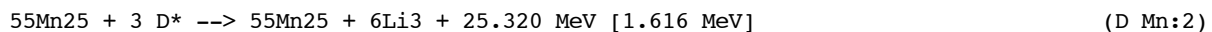
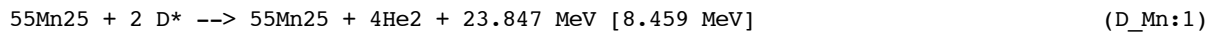
53Cr24 + 3 D\* --> 53Cr24 + 6Li3 + 25.320 MeV [2.239 MeV] (D\_Cr:16)

53Cr24 + 5 D\* --> 53Cr24 + 10B5 + 53.628 MeV [13.096 MeV] (D\_Cr:17)

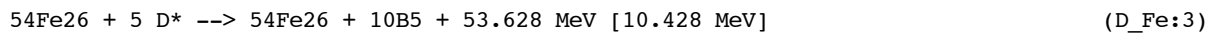
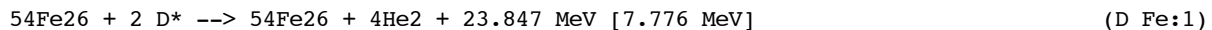
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----- Equations follow for Manganese, Mn, element 25 -----



----- Equations follow for Iron, Fe, element 26 -----



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54Fe26 + 6 D* --> 54Fe26 + 12C6 + 78.814 MeV [25.793 MeV]	(D_Fe:4)
54Fe26 + 7 D* --> 54Fe26 + 14N7 + 89.087 MeV [25.865 MeV]	(D_Fe:5)
54Fe26 + 8 D* --> 54Fe26 + 16O8 + 109.823 MeV [36.028 MeV]	(D_Fe:6)
54Fe26 + 10 D* --> 54Fe26 + 20Ne10 + 138.399 MeV [42.361 MeV]	(D_Fe:7)
56Fe26 + 2 D* --> 56Fe26 + 4He2 + 23.847 MeV [7.956 MeV]	(D_Fe:8)
56Fe26 + 3 D* --> 56Fe26 + 6Li3 + 25.320 MeV [00.871 MeV]	(D_Fe:9)
56Fe26 + 5 D* --> 56Fe26 + 10B5 + 53.628 MeV [10.869 MeV]	(D_Fe:10)
56Fe26 + 6 D* --> 56Fe26 + 12C6 + 78.814 MeV [26.318 MeV]	(D_Fe:11)
56Fe26 + 7 D* --> 56Fe26 + 14N7 + 89.087 MeV [26.473 MeV]	(D_Fe:12)
56Fe26 + 8 D* --> 56Fe26 + 16O8 + 109.823 MeV [36.718 MeV]	(D_Fe:13)
56Fe26 + 10 D* --> 56Fe26 + 20Ne10 + 138.399 MeV [43.211 MeV]	(D_Fe:14)
57Fe26 + 2 D* --> 57Fe26 + 4He2 + 23.847 MeV [8.044 MeV]	(D_Fe:15)
57Fe26 + 3 D* --> 57Fe26 + 6Li3 + 25.320 MeV [1.001 MeV]	(D_Fe:16)
57Fe26 + 5 D* --> 57Fe26 + 10B5 + 53.628 MeV [11.083 MeV]	(D_Fe:17)
57Fe26 + 6 D* --> 57Fe26 + 12C6 + 78.814 MeV [26.573 MeV]	(D_Fe:18)
57Fe26 + 7 D* --> 57Fe26 + 14N7 + 89.087 MeV [26.769 MeV]	(D_Fe:19)
57Fe26 + 8 D* --> 57Fe26 + 16O8 + 109.823 MeV [37.053 MeV]	(D_Fe:20)
57Fe26 + 10 D* --> 57Fe26 + 20Ne10 + 138.399 MeV [43.625 MeV]	(D_Fe:21)
58Fe26 + 2 D* --> 58Fe26 + 4He2 + 23.847 MeV [8.129 MeV]	(D_Fe:22)
58Fe26 + 3 D* --> 58Fe26 + 6Li3 + 25.320 MeV [1.128 MeV]	(D_Fe:23)
58Fe26 + 5 D* --> 58Fe26 + 10B5 + 53.628 MeV [11.292 MeV]	(D_Fe:24)
58Fe26 + 6 D* --> 58Fe26 + 12C6 + 78.814 MeV [26.823 MeV]	(D_Fe:25)

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58Fe26 + 7 D\* --> 58Fe26 + 14N7 + 89.087 MeV [27.058 MeV] (D\_Fe:26)

58Fe26 + 8 D\* --> 58Fe26 + 16O8 + 109.823 MeV [37.383 MeV] (D\_Fe:27)

58Fe26 + 10 D\* --> 58Fe26 + 20Ne10 + 138.399 MeV [44.032 MeV] (D\_Fe:28)

----- Equations follow for Cobalt, Co, element 27 -----

59Co27 + 2 D\* --> 59Co27 + 4He2 + 23.847 MeV [7.634 MeV] (D\_Co:1)

59Co27 + 3 D\* --> 59Co27 + 6Li3 + 25.320 MeV [00.394 MeV] (D\_Co:2)

59Co27 + 5 D\* --> 59Co27 + 10B5 + 53.628 MeV [10.093 MeV] (D\_Co:3)

59Co27 + 6 D\* --> 59Co27 + 12C6 + 78.814 MeV [25.399 MeV] (D\_Co:4)

59Co27 + 7 D\* --> 59Co27 + 14N7 + 89.087 MeV [25.413 MeV] (D\_Co:5)

59Co27 + 8 D\* --> 59Co27 + 16O8 + 109.823 MeV [35.521 MeV] (D\_Co:6)

59Co27 + 10 D\* --> 59Co27 + 20Ne10 + 138.399 MeV [41.747 MeV] (D\_Co:7)

----- Equations follow for Nickel, Ni, element 28 -----

58Ni28 + 2 D\* --> 58Ni28 + 4He2 + 23.847 MeV [6.965 MeV] (D\_Ni:1)

58Ni28 + 3 D\* --> 58Ni28 + 6Li3 + 25.320 MeV [-0.600 MeV] (D\_Ni:2)

58Ni28 + 5 D\* --> 58Ni28 + 10B5 + 53.628 MeV [8.470 MeV] (D\_Ni:3)

58Ni28 + 6 D\* --> 58Ni28 + 12C6 + 78.814 MeV [23.468 MeV] (D\_Ni:4)

58Ni28 + 7 D\* --> 58Ni28 + 14N7 + 89.087 MeV [23.182 MeV] (D\_Ni:5)

58Ni28 + 8 D\* --> 58Ni28 + 16O8 + 109.823 MeV [32.992 MeV] (D\_Ni:6)

58Ni28 + 10 D\* --> 58Ni28 + 20Ne10 + 138.399 MeV [38.639 MeV] (D\_Ni:7)

60Ni28 + 2 D\* --> 60Ni28 + 4He2 + 23.847 MeV [7.143 MeV] (D\_Ni:8)

60Ni28 + 3 D\* --> 60Ni28 + 6Li3 + 25.320 MeV [-0.335 MeV] (D\_Ni:9)

60Ni28 + 5 D\* --> 60Ni28 + 10B5 + 53.628 MeV [8.904 MeV] (D\_Ni:10)

60Ni28 + 6 D\* --> 60Ni28 + 12C6 + 78.814 MeV [23.986 MeV] (D\_Ni:11)

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60Ni28 + 7 D* --> 60Ni28 + 14N7 + 89.087 MeV [23.781 MeV]	(D_Ni:12)
60Ni28 + 8 D* --> 60Ni28 + 16O8 + 109.823 MeV [33.672 MeV]	(D_Ni:13)
60Ni28 + 10 D* --> 60Ni28 + 20Ne10 + 138.399 MeV [39.478 MeV]	(D_Ni:14)
61Ni28 + 2 D* --> 61Ni28 + 4He2 + 23.847 MeV [7.229 MeV]	(D_Ni:15)
61Ni28 + 3 D* --> 61Ni28 + 6Li3 + 25.320 MeV [-0.207 MeV]	(D_Ni:16)
61Ni28 + 5 D* --> 61Ni28 + 10B5 + 53.628 MeV [9.115 MeV]	(D_Ni:17)
61Ni28 + 6 D* --> 61Ni28 + 12C6 + 78.814 MeV [24.237 MeV]	(D_Ni:18)
61Ni28 + 7 D* --> 61Ni28 + 14N7 + 89.087 MeV [24.072 MeV]	(D_Ni:19)
61Ni28 + 8 D* --> 61Ni28 + 16O8 + 109.823 MeV [34.003 MeV]	(D_Ni:20)
61Ni28 + 10 D* --> 61Ni28 + 20Ne10 + 138.399 MeV [39.886 MeV]	(D_Ni:21)
62Ni28 + 2 D* --> 62Ni28 + 4He2 + 23.847 MeV [7.313 MeV]	(D_Ni:22)
62Ni28 + 3 D* --> 62Ni28 + 6Li3 + 25.320 MeV [-0.081 MeV]	(D_Ni:23)
62Ni28 + 5 D* --> 62Ni28 + 10B5 + 53.628 MeV [9.322 MeV]	(D_Ni:24)
62Ni28 + 6 D* --> 62Ni28 + 12C6 + 78.814 MeV [24.484 MeV]	(D_Ni:25)
62Ni28 + 7 D* --> 62Ni28 + 14N7 + 89.087 MeV [24.359 MeV]	(D_Ni:26)
62Ni28 + 8 D* --> 62Ni28 + 16O8 + 109.823 MeV [34.329 MeV]	(D_Ni:27)
62Ni28 + 10 D* --> 62Ni28 + 20Ne10 + 138.399 MeV [40.288 MeV]	(D_Ni:28)
64Ni28 + 2 D* --> 64Ni28 + 4He2 + 23.847 MeV [7.477 MeV]	(D_Ni:29)
64Ni28 + 3 D* --> 64Ni28 + 6Li3 + 25.320 MeV [00.163 MeV]	(D_Ni:30)
64Ni28 + 5 D* --> 64Ni28 + 10B5 + 53.628 MeV [9.725 MeV]	(D_Ni:31)
64Ni28 + 6 D* --> 64Ni28 + 12C6 + 78.814 MeV [24.965 MeV]	(D_Ni:32)
64Ni28 + 7 D* --> 64Ni28 + 14N7 + 89.087 MeV [24.917 MeV]	(D_Ni:33)

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64Ni28 + 8 D\* --> 64Ni28 + 16O8 + 109.823 MeV [34.963 MeV] (D\_Ni:34)

64Ni28 + 10 D\* --> 64Ni28 + 20Ne10 + 138.399 MeV [41.073 MeV] (D\_Ni:35)

----- Equations follow for Copper, Cu, element 29 -----

63Cu29 + 2 D\* --> 63Cu29 + 4He2 + 23.847 MeV [6.828 MeV] (D\_Cu:1)

63Cu29 + 3 D\* --> 63Cu29 + 6Li3 + 25.320 MeV [-0.800 MeV] (D\_Cu:2)

63Cu29 + 5 D\* --> 63Cu29 + 10B5 + 53.628 MeV [8.147 MeV] (D\_Cu:3)

63Cu29 + 6 D\* --> 63Cu29 + 12C6 + 78.814 MeV [23.088 MeV] (D\_Cu:4)

63Cu29 + 7 D\* --> 63Cu29 + 14N7 + 89.087 MeV [22.745 MeV] (D\_Cu:5)

63Cu29 + 8 D\* --> 63Cu29 + 16O8 + 109.823 MeV [32.501 MeV] (D\_Cu:6)

63Cu29 + 10 D\* --> 63Cu29 + 20Ne10 + 138.399 MeV [38.043 MeV] (D\_Cu:7)

65Cu29 + 2 D\* --> 65Cu29 + 4He2 + 23.847 MeV [6.994 MeV] (D\_Cu:8)

65Cu29 + 3 D\* --> 65Cu29 + 6Li3 + 25.320 MeV [-0.553 MeV] (D\_Cu:9)

65Cu29 + 5 D\* --> 65Cu29 + 10B5 + 53.628 MeV [8.555 MeV] (D\_Cu:10)

65Cu29 + 6 D\* --> 65Cu29 + 12C6 + 78.814 MeV [23.574 MeV] (D\_Cu:11)

65Cu29 + 7 D\* --> 65Cu29 + 14N7 + 89.087 MeV [23.309 MeV] (D\_Cu:12)

65Cu29 + 8 D\* --> 65Cu29 + 16O8 + 109.823 MeV [33.143 MeV] (D\_Cu:13)

65Cu29 + 10 D\* --> 65Cu29 + 20Ne10 + 138.399 MeV [38.837 MeV] (D\_Cu:14)

----- Equations follow for Zinc, Zn, element 30 -----

64Zn30 + 2 D\* --> 64Zn30 + 4He2 + 23.847 MeV [6.348 MeV] (D\_Zn:1)

64Zn30 + 3 D\* --> 64Zn30 + 6Li3 + 25.320 MeV [-1.514 MeV] (D\_Zn:2)

64Zn30 + 5 D\* --> 64Zn30 + 10B5 + 53.628 MeV [6.981 MeV] (D\_Zn:3)

64Zn30 + 6 D\* --> 64Zn30 + 12C6 + 78.814 MeV [21.701 MeV] (D\_Zn:4)

64Zn30 + 7 D\* --> 64Zn30 + 14N7 + 89.087 MeV [21.142 MeV] (D\_Zn:5)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
Creating Stable Isotope Z Via Nuclear Catalytic Action

64Zn30 + 8 D* --> 64Zn30 + 16O8 + 109.823 MeV [30.686 MeV]	(D_Zn:6)
64Zn30 + 10 D* --> 64Zn30 + 20Ne10 + 138.399 MeV [35.813 MeV]	(D_Zn:7)
66Zn30 + 2 D* --> 66Zn30 + 4He2 + 23.847 MeV [6.516 MeV]	(D_Zn:8)
66Zn30 + 3 D* --> 66Zn30 + 6Li3 + 25.320 MeV [-1.263 MeV]	(D_Zn:9)
66Zn30 + 5 D* --> 66Zn30 + 10B5 + 53.628 MeV [7.394 MeV]	(D_Zn:10)
66Zn30 + 6 D* --> 66Zn30 + 12C6 + 78.814 MeV [22.194 MeV]	(D_Zn:11)
66Zn30 + 7 D* --> 66Zn30 + 14N7 + 89.087 MeV [21.713 MeV]	(D_Zn:12)
66Zn30 + 8 D* --> 66Zn30 + 16O8 + 109.823 MeV [31.334 MeV]	(D_Zn:13)
66Zn30 + 10 D* --> 66Zn30 + 20Ne10 + 138.399 MeV [36.614 MeV]	(D_Zn:14)
67Zn30 + 2 D* --> 67Zn30 + 4He2 + 23.847 MeV [6.598 MeV]	(D_Zn:15)
67Zn30 + 3 D* --> 67Zn30 + 6Li3 + 25.320 MeV [-1.141 MeV]	(D_Zn:16)
67Zn30 + 5 D* --> 67Zn30 + 10B5 + 53.628 MeV [7.595 MeV]	(D_Zn:17)
67Zn30 + 6 D* --> 67Zn30 + 12C6 + 78.814 MeV [22.434 MeV]	(D_Zn:18)
67Zn30 + 7 D* --> 67Zn30 + 14N7 + 89.087 MeV [21.991 MeV]	(D_Zn:19)
67Zn30 + 8 D* --> 67Zn30 + 16O8 + 109.823 MeV [31.651 MeV]	(D_Zn:20)
67Zn30 + 10 D* --> 67Zn30 + 20Ne10 + 138.399 MeV [37.006 MeV]	(D_Zn:21)
68Zn30 + 2 D* --> 68Zn30 + 4He2 + 23.847 MeV [6.678 MeV]	(D_Zn:22)
68Zn30 + 3 D* --> 68Zn30 + 6Li3 + 25.320 MeV [-1.021 MeV]	(D_Zn:23)
68Zn30 + 5 D* --> 68Zn30 + 10B5 + 53.628 MeV [7.792 MeV]	(D_Zn:24)
68Zn30 + 6 D* --> 68Zn30 + 12C6 + 78.814 MeV [22.670 MeV]	(D_Zn:25)
68Zn30 + 7 D* --> 68Zn30 + 14N7 + 89.087 MeV [22.265 MeV]	(D_Zn:26)
68Zn30 + 8 D* --> 68Zn30 + 16O8 + 109.823 MeV [31.962 MeV]	(D_Zn:27)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
 Creating Stable Isotope Z Via Nuclear Catalytic Action

68Zn30 + 10 D\* --> 68Zn30 + 20Ne10 + 138.399 MeV [37.391 MeV] (D\_Zn:28)

70Zn30 + 2 D\* --> 70Zn30 + 4He2 + 23.847 MeV [6.834 MeV] (D\_Zn:29)

70Zn30 + 3 D\* --> 70Zn30 + 6Li3 + 25.320 MeV [-0.788 MeV] (D\_Zn:30)

70Zn30 + 5 D\* --> 70Zn30 + 10B5 + 53.628 MeV [8.177 MeV] (D\_Zn:31)

70Zn30 + 6 D\* --> 70Zn30 + 12C6 + 78.814 MeV [23.130 MeV] (D\_Zn:32)

70Zn30 + 7 D\* --> 70Zn30 + 14N7 + 89.087 MeV [22.800 MeV] (D\_Zn:33)

70Zn30 + 8 D\* --> 70Zn30 + 16O8 + 109.823 MeV [32.570 MeV] (D\_Zn:34)

70Zn30 + 10 D\* --> 70Zn30 + 20Ne10 + 138.399 MeV [38.145 MeV] (D\_Zn:35)

----- Equations follow for Gallium, Ga, element 31 -----

69Ga31 + 2 D\* --> 69Ga31 + 4He2 + 23.847 MeV [6.205 MeV] (D\_Ga:1)

69Ga31 + 3 D\* --> 69Ga31 + 6Li3 + 25.320 MeV [-1.723 MeV] (D\_Ga:2)

69Ga31 + 5 D\* --> 69Ga31 + 10B5 + 53.628 MeV [6.644 MeV] (D\_Ga:3)

69Ga31 + 6 D\* --> 69Ga31 + 12C6 + 78.814 MeV [21.304 MeV] (D\_Ga:4)

69Ga31 + 7 D\* --> 69Ga31 + 14N7 + 89.087 MeV [20.686 MeV] (D\_Ga:5)

69Ga31 + 8 D\* --> 69Ga31 + 16O8 + 109.823 MeV [30.173 MeV] (D\_Ga:6)

69Ga31 + 10 D\* --> 69Ga31 + 20Ne10 + 138.399 MeV [35.191 MeV] (D\_Ga:7)

71Ga31 + 2 D\* --> 71Ga31 + 4He2 + 23.847 MeV [6.364 MeV] (D\_Ga:8)

71Ga31 + 3 D\* --> 71Ga31 + 6Li3 + 25.320 MeV [-1.487 MeV] (D\_Ga:9)

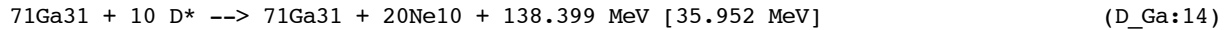
71Ga31 + 5 D\* --> 71Ga31 + 10B5 + 53.628 MeV [7.034 MeV] (D\_Ga:10)

71Ga31 + 6 D\* --> 71Ga31 + 12C6 + 78.814 MeV [21.770 MeV] (D\_Ga:11)

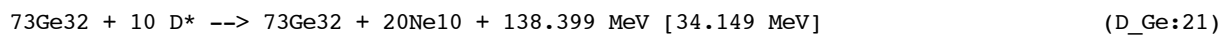
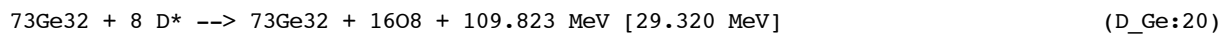
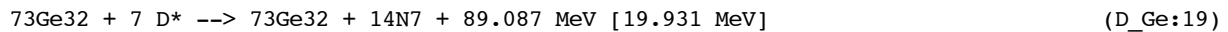
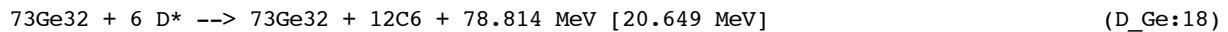
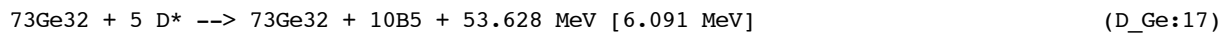
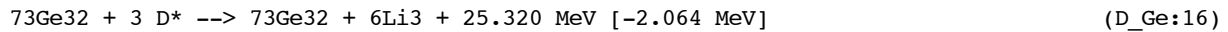
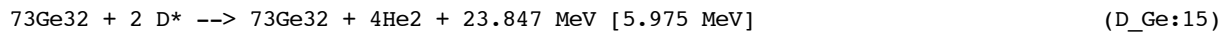
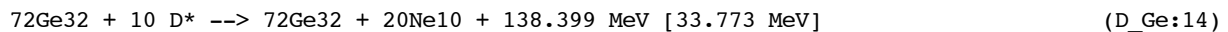
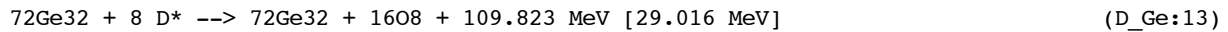
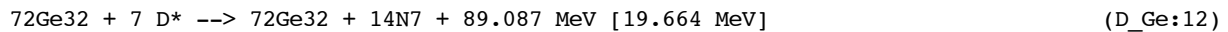
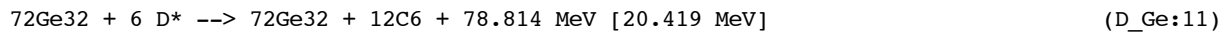
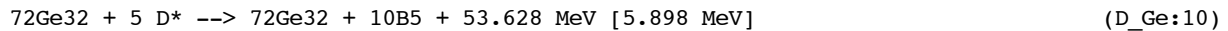
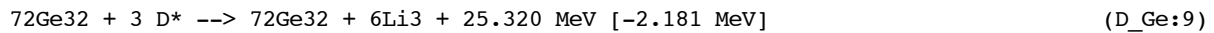
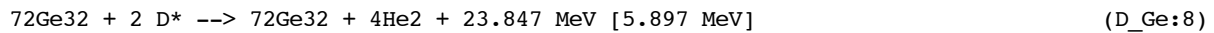
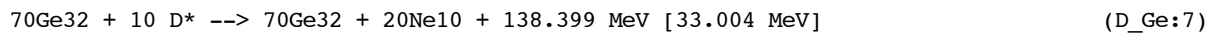
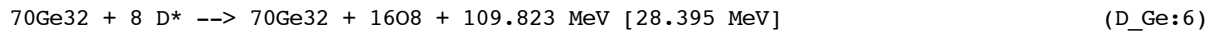
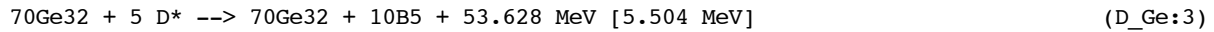
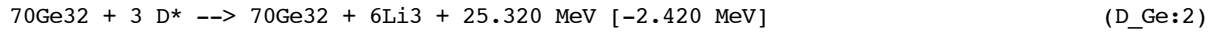
71Ga31 + 7 D\* --> 71Ga31 + 14N7 + 89.087 MeV [21.227 MeV] (D\_Ga:12)

71Ga31 + 8 D\* --> 71Ga31 + 16O8 + 109.823 MeV [30.788 MeV] (D\_Ga:13)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
 Creating Stable Isotope Z Via Nuclear Catalytic Action



----- Equations follow for Germanium, Ge, element 32 -----



Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
 Creating Stable Isotope Z Via Nuclear Catalytic Action

74Ge32 + 2 D\* --> 74Ge32 + 4He2 + 23.847 MeV [6.052 MeV] (D\_Ge:22)

74Ge32 + 3 D\* --> 74Ge32 + 6Li3 + 25.320 MeV [-1.950 MeV] (D\_Ge:23)

74Ge32 + 5 D\* --> 74Ge32 + 10B5 + 53.628 MeV [6.280 MeV] (D\_Ge:24)

74Ge32 + 6 D\* --> 74Ge32 + 12C6 + 78.814 MeV [20.875 MeV] (D\_Ge:25)

74Ge32 + 7 D\* --> 74Ge32 + 14N7 + 89.087 MeV [20.194 MeV] (D\_Ge:26)

74Ge32 + 8 D\* --> 74Ge32 + 16O8 + 109.823 MeV [29.619 MeV] (D\_Ge:27)

74Ge32 + 10 D\* --> 74Ge32 + 20Ne10 + 138.399 MeV [34.520 MeV] (D\_Ge:28)

76Ge32 + 2 D\* --> 76Ge32 + 4He2 + 23.847 MeV [6.201 MeV] (D\_Ge:29)

76Ge32 + 3 D\* --> 76Ge32 + 6Li3 + 25.320 MeV [-1.726 MeV] (D\_Ge:30)

76Ge32 + 5 D\* --> 76Ge32 + 10B5 + 53.628 MeV [6.650 MeV] (D\_Ge:31)

76Ge32 + 6 D\* --> 76Ge32 + 12C6 + 78.814 MeV [21.317 MeV] (D\_Ge:32)

76Ge32 + 7 D\* --> 76Ge32 + 14N7 + 89.087 MeV [20.708 MeV] (D\_Ge:33)

76Ge32 + 8 D\* --> 76Ge32 + 16O8 + 109.823 MeV [30.205 MeV] (D\_Ge:34)

76Ge32 + 10 D\* --> 76Ge32 + 20Ne10 + 138.399 MeV [35.247 MeV] (D\_Ge:35)

----- Equations follow for Arsenic, As, element 33 -----

75As33 + 2 D\* --> 75As33 + 4He2 + 23.847 MeV [5.590 MeV] (D\_As:1)

75As33 + 3 D\* --> 75As33 + 6Li3 + 25.320 MeV [-2.636 MeV] (D\_As:2)

75As33 + 5 D\* --> 75As33 + 10B5 + 53.628 MeV [5.157 MeV] (D\_As:3)

75As33 + 6 D\* --> 75As33 + 12C6 + 78.814 MeV [19.538 MeV] (D\_As:4)

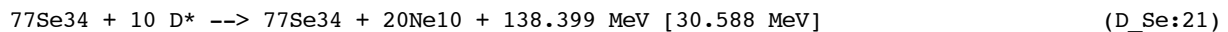
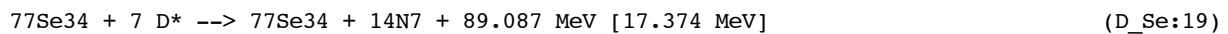
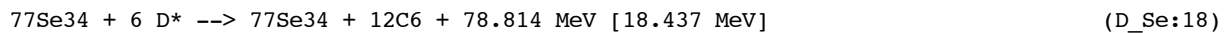
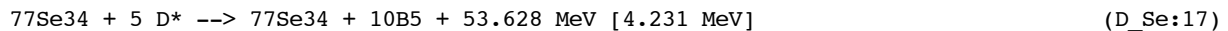
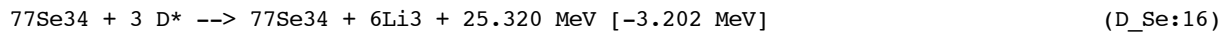
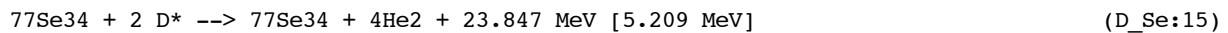
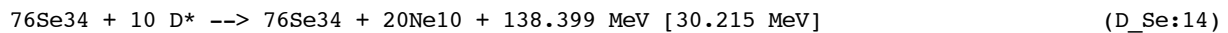
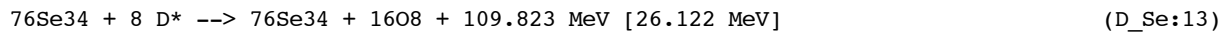
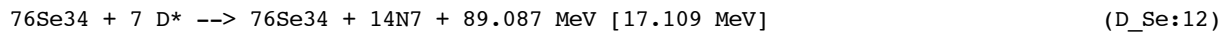
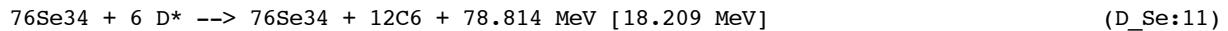
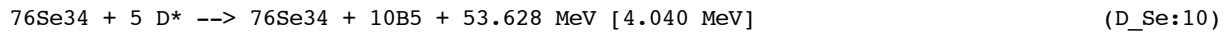
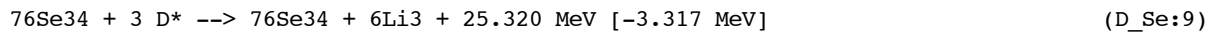
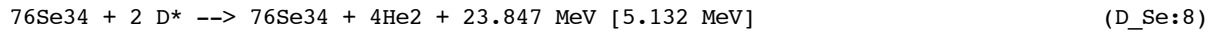
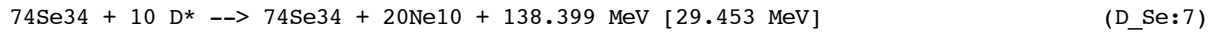
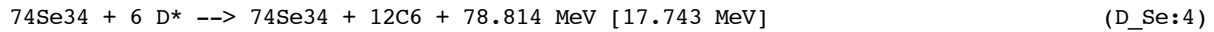
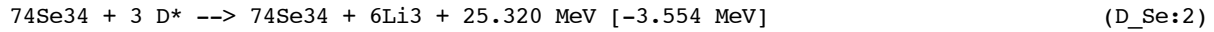
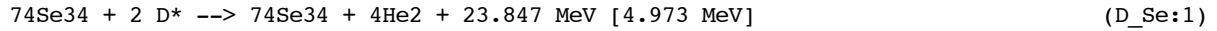
75As33 + 7 D\* --> 75As33 + 14N7 + 89.087 MeV [18.647 MeV] (D\_As:5)

75As33 + 8 D\* --> 75As33 + 16O8 + 109.823 MeV [27.865 MeV] (D\_As:6)

75As33 + 10 D\* --> 75As33 + 20Ne10 + 138.399 MeV [32.361 MeV] (D\_As:7)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
Creating Stable Isotope Z Via Nuclear Catalytic Action

----- Equations follow for Selenium, Se, element 34 -----



Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
 Creating Stable Isotope Z Via Nuclear Catalytic Action

78Se34 + 2 D\* --> 78Se34 + 4He2 + 23.847 MeV [5.285 MeV] (D\_Se:22)

78Se34 + 3 D\* --> 78Se34 + 6Li3 + 25.320 MeV [-3.088 MeV] (D\_Se:23)

78Se34 + 5 D\* --> 78Se34 + 10B5 + 53.628 MeV [4.419 MeV] (D\_Se:24)

78Se34 + 6 D\* --> 78Se34 + 12C6 + 78.814 MeV [18.662 MeV] (D\_Se:25)

78Se34 + 7 D\* --> 78Se34 + 14N7 + 89.087 MeV [17.635 MeV] (D\_Se:26)

78Se34 + 8 D\* --> 78Se34 + 16O8 + 109.823 MeV [26.720 MeV] (D\_Se:27)

78Se34 + 10 D\* --> 78Se34 + 20Ne10 + 138.399 MeV [30.956 MeV] (D\_Se:28)

80Se34 + 2 D\* --> 80Se34 + 4He2 + 23.847 MeV [5.434 MeV] (D\_Se:29)

80Se34 + 3 D\* --> 80Se34 + 6Li3 + 25.320 MeV [-2.866 MeV] (D\_Se:30)

80Se34 + 5 D\* --> 80Se34 + 10B5 + 53.628 MeV [4.786 MeV] (D\_Se:31)

80Se34 + 6 D\* --> 80Se34 + 12C6 + 78.814 MeV [19.101 MeV] (D\_Se:32)

80Se34 + 7 D\* --> 80Se34 + 14N7 + 89.087 MeV [18.145 MeV] (D\_Se:33)

80Se34 + 8 D\* --> 80Se34 + 16O8 + 109.823 MeV [27.301 MeV] (D\_Se:34)

80Se34 + 10 D\* --> 80Se34 + 20Ne10 + 138.399 MeV [31.677 MeV] (D\_Se:35)

82Se34 + 2 D\* --> 82Se34 + 4He2 + 23.847 MeV [5.577 MeV] (D\_Se:36)

82Se34 + 3 D\* --> 82Se34 + 6Li3 + 25.320 MeV [-2.651 MeV] (D\_Se:37)

82Se34 + 5 D\* --> 82Se34 + 10B5 + 53.628 MeV [5.143 MeV] (D\_Se:38)

82Se34 + 6 D\* --> 82Se34 + 12C6 + 78.814 MeV [19.527 MeV] (D\_Se:39)

82Se34 + 7 D\* --> 82Se34 + 14N7 + 89.087 MeV [18.641 MeV] (D\_Se:40)

82Se34 + 8 D\* --> 82Se34 + 16O8 + 109.823 MeV [27.866 MeV] (D\_Se:41)

82Se34 + 10 D\* --> 82Se34 + 20Ne10 + 138.399 MeV [32.379 MeV] (D\_Se:42)

----- Equations follow for Bromine, Br, element 35 -----

79Br35 + 2 D\* --> 79Br35 + 4He2 + 23.847 MeV [4.832 MeV] (D\_Br:1)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
 Creating Stable Isotope Z Via Nuclear Catalytic Action

79Br35 + 3 D\* --> 79Br35 + 6Li3 + 25.320 MeV [-3.762 MeV] (D\_Br:2)

79Br35 + 5 D\* --> 79Br35 + 10B5 + 53.628 MeV [3.314 MeV] (D\_Br:3)

79Br35 + 6 D\* --> 79Br35 + 12C6 + 78.814 MeV [17.346 MeV] (D\_Br:4)

79Br35 + 7 D\* --> 79Br35 + 14N7 + 89.087 MeV [16.112 MeV] (D\_Br:5)

79Br35 + 8 D\* --> 79Br35 + 16O8 + 109.823 MeV [24.993 MeV] (D\_Br:6)

79Br35 + 10 D\* --> 79Br35 + 20Ne10 + 138.399 MeV [28.829 MeV] (D\_Br:7)

81Br35 + 2 D\* --> 81Br35 + 4He2 + 23.847 MeV [4.982 MeV] (D\_Br:8)

81Br35 + 3 D\* --> 81Br35 + 6Li3 + 25.320 MeV [-3.538 MeV] (D\_Br:9)

81Br35 + 5 D\* --> 81Br35 + 10B5 + 53.628 MeV [3.685 MeV] (D\_Br:10)

81Br35 + 6 D\* --> 81Br35 + 12C6 + 78.814 MeV [17.790 MeV] (D\_Br:11)

81Br35 + 7 D\* --> 81Br35 + 14N7 + 89.087 MeV [16.627 MeV] (D\_Br:12)

81Br35 + 8 D\* --> 81Br35 + 16O8 + 109.823 MeV [25.580 MeV] (D\_Br:13)

81Br35 + 10 D\* --> 81Br35 + 20Ne10 + 138.399 MeV [29.557 MeV] (D\_Br:14)

----- Equations follow for Krypton, Kr, element 36 -----

78Kr36 + 2 D\* --> 78Kr36 + 4He2 + 23.847 MeV [4.224 MeV] (D\_Kr:1)

78Kr36 + 3 D\* --> 78Kr36 + 6Li3 + 25.320 MeV [-4.666 MeV] (D\_Kr:2)

78Kr36 + 5 D\* --> 78Kr36 + 10B5 + 53.628 MeV [1.829 MeV] (D\_Kr:3)

78Kr36 + 6 D\* --> 78Kr36 + 12C6 + 78.814 MeV [15.577 MeV] (D\_Kr:4)

78Kr36 + 7 D\* --> 78Kr36 + 14N7 + 89.087 MeV [14.062 MeV] (D\_Kr:5)

78Kr36 + 8 D\* --> 78Kr36 + 16O8 + 109.823 MeV [22.666 MeV] (D\_Kr:6)

78Kr36 + 10 D\* --> 78Kr36 + 20Ne10 + 138.399 MeV [25.959 MeV] (D\_Kr:7)

80Kr36 + 2 D\* --> 80Kr36 + 4He2 + 23.847 MeV [4.381 MeV] (D\_Kr:8)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
Creating Stable Isotope Z Via Nuclear Catalytic Action

80Kr36 + 3 D* --> 80Kr36 + 6Li3 + 25.320 MeV [-4.432 MeV]	(D_Kr:9)
80Kr36 + 5 D* --> 80Kr36 + 10B5 + 53.628 MeV [2.215 MeV]	(D_Kr:10)
80Kr36 + 6 D* --> 80Kr36 + 12C6 + 78.814 MeV [16.039 MeV]	(D_Kr:11)
80Kr36 + 7 D* --> 80Kr36 + 14N7 + 89.087 MeV [14.598 MeV]	(D_Kr:12)
80Kr36 + 8 D* --> 80Kr36 + 16O8 + 109.823 MeV [23.275 MeV]	(D_Kr:13)
80Kr36 + 10 D* --> 80Kr36 + 20Ne10 + 138.399 MeV [26.713 MeV]	(D_Kr:14)
82Kr36 + 2 D* --> 82Kr36 + 4He2 + 23.847 MeV [4.533 MeV]	(D_Kr:15)
82Kr36 + 3 D* --> 82Kr36 + 6Li3 + 25.320 MeV [-4.205 MeV]	(D_Kr:16)
82Kr36 + 5 D* --> 82Kr36 + 10B5 + 53.628 MeV [2.591 MeV]	(D_Kr:17)
82Kr36 + 6 D* --> 82Kr36 + 12C6 + 78.814 MeV [16.487 MeV]	(D_Kr:18)
82Kr36 + 7 D* --> 82Kr36 + 14N7 + 89.087 MeV [15.119 MeV]	(D_Kr:19)
82Kr36 + 8 D* --> 82Kr36 + 16O8 + 109.823 MeV [23.868 MeV]	(D_Kr:20)
82Kr36 + 10 D* --> 82Kr36 + 20Ne10 + 138.399 MeV [27.448 MeV]	(D_Kr:21)
83Kr36 + 2 D* --> 83Kr36 + 4He2 + 23.847 MeV [4.608 MeV]	(D_Kr:22)
83Kr36 + 3 D* --> 83Kr36 + 6Li3 + 25.320 MeV [-4.094 MeV]	(D_Kr:23)
83Kr36 + 5 D* --> 83Kr36 + 10B5 + 53.628 MeV [2.774 MeV]	(D_Kr:24)
83Kr36 + 6 D* --> 83Kr36 + 12C6 + 78.814 MeV [16.706 MeV]	(D_Kr:25)
83Kr36 + 7 D* --> 83Kr36 + 14N7 + 89.087 MeV [15.374 MeV]	(D_Kr:26)
83Kr36 + 8 D* --> 83Kr36 + 16O8 + 109.823 MeV [24.159 MeV]	(D_Kr:27)
83Kr36 + 10 D* --> 83Kr36 + 20Ne10 + 138.399 MeV [27.808 MeV]	(D_Kr:28)
84Kr36 + 2 D* --> 84Kr36 + 4He2 + 23.847 MeV [4.681 MeV]	(D_Kr:29)
84Kr36 + 3 D* --> 84Kr36 + 6Li3 + 25.320 MeV [-3.985 MeV]	(D_Kr:30)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
 Creating Stable Isotope Z Via Nuclear Catalytic Action

84Kr36 + 5 D\* --> 84Kr36 + 10B5 + 53.628 MeV [2.955 MeV] (D\_Kr:31)

84Kr36 + 6 D\* --> 84Kr36 + 12C6 + 78.814 MeV [16.923 MeV] (D\_Kr:32)

84Kr36 + 7 D\* --> 84Kr36 + 14N7 + 89.087 MeV [15.625 MeV] (D\_Kr:33)

84Kr36 + 8 D\* --> 84Kr36 + 16O8 + 109.823 MeV [24.445 MeV] (D\_Kr:34)

84Kr36 + 10 D\* --> 84Kr36 + 20Ne10 + 138.399 MeV [28.164 MeV] (D\_Kr:35)

86Kr36 + 2 D\* --> 86Kr36 + 4He2 + 23.847 MeV [4.824 MeV] (D\_Kr:36)

86Kr36 + 3 D\* --> 86Kr36 + 6Li3 + 25.320 MeV [-3.771 MeV] (D\_Kr:37)

86Kr36 + 5 D\* --> 86Kr36 + 10B5 + 53.628 MeV [3.310 MeV] (D\_Kr:38)

86Kr36 + 6 D\* --> 86Kr36 + 12C6 + 78.814 MeV [17.347 MeV] (D\_Kr:39)

86Kr36 + 7 D\* --> 86Kr36 + 14N7 + 89.087 MeV [16.119 MeV] (D\_Kr:40)

86Kr36 + 8 D\* --> 86Kr36 + 16O8 + 109.823 MeV [25.007 MeV] (D\_Kr:41)

86Kr36 + 10 D\* --> 86Kr36 + 20Ne10 + 138.399 MeV [28.862 MeV] (D\_Kr:42)

----- Equations follow for Rubidium, Rb, element 37 -----

85Rb37 + 2 D\* --> 85Rb37 + 4He2 + 23.847 MeV [4.237 MeV] (D\_Rb:1)

85Rb37 + 3 D\* --> 85Rb37 + 6Li3 + 25.320 MeV [-4.645 MeV] (D\_Rb:2)

85Rb37 + 5 D\* --> 85Rb37 + 10B5 + 53.628 MeV [1.871 MeV] (D\_Rb:3)

85Rb37 + 6 D\* --> 85Rb37 + 12C6 + 78.814 MeV [15.632 MeV] (D\_Rb:4)

85Rb37 + 7 D\* --> 85Rb37 + 14N7 + 89.087 MeV [14.130 MeV] (D\_Rb:5)

85Rb37 + 8 D\* --> 85Rb37 + 16O8 + 109.823 MeV [22.749 MeV] (D\_Rb:6)

85Rb37 + 10 D\* --> 85Rb37 + 20Ne10 + 138.399 MeV [26.073 MeV] (D\_Rb:7)

87Rb37 + 2 D\* --> 87Rb37 + 4He2 + 23.847 MeV [4.382 MeV] (D\_Rb:8)

87Rb37 + 3 D\* --> 87Rb37 + 6Li3 + 25.320 MeV [-4.429 MeV] (D\_Rb:9)

87Rb37 + 5 D\* --> 87Rb37 + 10B5 + 53.628 MeV [2.230 MeV] (D\_Rb:10)

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87Rb37 + 6 D\* --> 87Rb37 + 12C6 + 78.814 MeV [16.060 MeV] (D\_Rb:11)

87Rb37 + 7 D\* --> 87Rb37 + 14N7 + 89.087 MeV [14.629 MeV] (D\_Rb:12)

87Rb37 + 8 D\* --> 87Rb37 + 16O8 + 109.823 MeV [23.316 MeV] (D\_Rb:13)

87Rb37 + 10 D\* --> 87Rb37 + 20Ne10 + 138.399 MeV [26.777 MeV] (D\_Rb:14)

----- Equations follow for Strontium, Sr, element 38 -----

84Sr38 + 2 D\* --> 84Sr38 + 4He2 + 23.847 MeV [3.645 MeV] (D\_Sr:1)

84Sr38 + 3 D\* --> 84Sr38 + 6Li3 + 25.320 MeV [-5.527 MeV] (D\_Sr:2)

84Sr38 + 5 D\* --> 84Sr38 + 10B5 + 53.628 MeV [00.422 MeV] (D\_Sr:3)

84Sr38 + 6 D\* --> 84Sr38 + 12C6 + 78.814 MeV [13.904 MeV] (D\_Sr:4)

84Sr38 + 7 D\* --> 84Sr38 + 14N7 + 89.087 MeV [12.127 MeV] (D\_Sr:5)

84Sr38 + 8 D\* --> 84Sr38 + 16O8 + 109.823 MeV [20.474 MeV] (D\_Sr:6)

84Sr38 + 10 D\* --> 84Sr38 + 20Ne10 + 138.399 MeV [23.265 MeV] (D\_Sr:7)

86Sr38 + 2 D\* --> 86Sr38 + 4He2 + 23.847 MeV [3.796 MeV] (D\_Sr:8)

86Sr38 + 3 D\* --> 86Sr38 + 6Li3 + 25.320 MeV [-5.302 MeV] (D\_Sr:9)

86Sr38 + 5 D\* --> 86Sr38 + 10B5 + 53.628 MeV [00.794 MeV] (D\_Sr:10)

86Sr38 + 6 D\* --> 86Sr38 + 12C6 + 78.814 MeV [14.348 MeV] (D\_Sr:11)

86Sr38 + 7 D\* --> 86Sr38 + 14N7 + 89.087 MeV [12.644 MeV] (D\_Sr:12)

86Sr38 + 8 D\* --> 86Sr38 + 16O8 + 109.823 MeV [21.062 MeV] (D\_Sr:13)

86Sr38 + 10 D\* --> 86Sr38 + 20Ne10 + 138.399 MeV [23.993 MeV] (D\_Sr:14)

87Sr38 + 2 D\* --> 87Sr38 + 4He2 + 23.847 MeV [3.869 MeV] (D\_Sr:15)

87Sr38 + 3 D\* --> 87Sr38 + 6Li3 + 25.320 MeV [-5.192 MeV] (D\_Sr:16)

87Sr38 + 5 D\* --> 87Sr38 + 10B5 + 53.628 MeV [00.976 MeV] (D\_Sr:17)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
 Creating Stable Isotope Z Via Nuclear Catalytic Action

87Sr38 + 6 D\* --> 87Sr38 + 12C6 + 78.814 MeV [14.566 MeV] (D\_Sr:18)

87Sr38 + 7 D\* --> 87Sr38 + 14N7 + 89.087 MeV [12.897 MeV] (D\_Sr:19)

87Sr38 + 8 D\* --> 87Sr38 + 16O8 + 109.823 MeV [21.350 MeV] (D\_Sr:20)

87Sr38 + 10 D\* --> 87Sr38 + 20Ne10 + 138.399 MeV [24.351 MeV] (D\_Sr:21)

88Sr38 + 2 D\* --> 88Sr38 + 4He2 + 23.847 MeV [3.942 MeV] (D\_Sr:22)

88Sr38 + 3 D\* --> 88Sr38 + 6Li3 + 25.320 MeV [-5.083 MeV] (D\_Sr:23)

88Sr38 + 5 D\* --> 88Sr38 + 10B5 + 53.628 MeV [1.156 MeV] (D\_Sr:24)

88Sr38 + 6 D\* --> 88Sr38 + 12C6 + 78.814 MeV [14.781 MeV] (D\_Sr:25)

88Sr38 + 7 D\* --> 88Sr38 + 14N7 + 89.087 MeV [13.147 MeV] (D\_Sr:26)

88Sr38 + 8 D\* --> 88Sr38 + 16O8 + 109.823 MeV [21.635 MeV] (D\_Sr:27)

88Sr38 + 10 D\* --> 88Sr38 + 20Ne10 + 138.399 MeV [24.704 MeV] (D\_Sr:28)

----- Equations follow for Yttrium, Y, element 39 -----

89Y39 + 2 D\* --> 89Y39 + 4He2 + 23.847 MeV [3.505 MeV] (D\_Y:1)

89Y39 + 3 D\* --> 89Y39 + 6Li3 + 25.320 MeV [-5.734 MeV] (D\_Y:2)

89Y39 + 5 D\* --> 89Y39 + 10B5 + 53.628 MeV [00.088 MeV] (D\_Y:3)

89Y39 + 6 D\* --> 89Y39 + 12C6 + 78.814 MeV [13.509 MeV] (D\_Y:4)

89Y39 + 7 D\* --> 89Y39 + 14N7 + 89.087 MeV [11.673 MeV] (D\_Y:5)

89Y39 + 8 D\* --> 89Y39 + 16O8 + 109.823 MeV [19.962 MeV] (D\_Y:6)

89Y39 + 10 D\* --> 89Y39 + 20Ne10 + 138.399 MeV [22.641 MeV] (D\_Y:7)

----- Equations follow for Zirconium, Zr, element 40 -----

90Zr40 + 2 D\* --> 90Zr40 + 4He2 + 23.847 MeV [3.071 MeV] (D\_Zr:1)

90Zr40 + 3 D\* --> 90Zr40 + 6Li3 + 25.320 MeV [-6.380 MeV] (D\_Zr:2)

90Zr40 + 5 D\* --> 90Zr40 + 10B5 + 53.628 MeV [-0.974 MeV] (D\_Zr:3)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
Creating Stable Isotope Z Via Nuclear Catalytic Action

90Zr40 + 6 D* --> 90Zr40 + 12C6 + 78.814 MeV [12.244 MeV]	(D_Zr:4)
90Zr40 + 7 D* --> 90Zr40 + 14N7 + 89.087 MeV [10.207 MeV]	(D_Zr:5)
90Zr40 + 8 D* --> 90Zr40 + 16O8 + 109.823 MeV [18.298 MeV]	(D_Zr:6)
90Zr40 + 10 D* --> 90Zr40 + 20Ne10 + 138.399 MeV [20.589 MeV]	(D_Zr:7)
91Zr40 + 2 D* --> 91Zr40 + 4He2 + 23.847 MeV [3.144 MeV]	(D_Zr:8)
91Zr40 + 3 D* --> 91Zr40 + 6Li3 + 25.320 MeV [-6.271 MeV]	(D_Zr:9)
91Zr40 + 5 D* --> 91Zr40 + 10B5 + 53.628 MeV [-0.793 MeV]	(D_Zr:10)
91Zr40 + 6 D* --> 91Zr40 + 12C6 + 78.814 MeV [12.460 MeV]	(D_Zr:11)
91Zr40 + 7 D* --> 91Zr40 + 14N7 + 89.087 MeV [10.458 MeV]	(D_Zr:12)
91Zr40 + 8 D* --> 91Zr40 + 16O8 + 109.823 MeV [18.584 MeV]	(D_Zr:13)
91Zr40 + 10 D* --> 91Zr40 + 20Ne10 + 138.399 MeV [20.943 MeV]	(D_Zr:14)
92Zr40 + 2 D* --> 92Zr40 + 4He2 + 23.847 MeV [3.216 MeV]	(D_Zr:15)
92Zr40 + 3 D* --> 92Zr40 + 6Li3 + 25.320 MeV [-6.163 MeV]	(D_Zr:16)
92Zr40 + 5 D* --> 92Zr40 + 10B5 + 53.628 MeV [-0.615 MeV]	(D_Zr:17)
92Zr40 + 6 D* --> 92Zr40 + 12C6 + 78.814 MeV [12.673 MeV]	(D_Zr:18)
92Zr40 + 7 D* --> 92Zr40 + 14N7 + 89.087 MeV [10.706 MeV]	(D_Zr:19)
92Zr40 + 8 D* --> 92Zr40 + 16O8 + 109.823 MeV [18.867 MeV]	(D_Zr:20)
92Zr40 + 10 D* --> 92Zr40 + 20Ne10 + 138.399 MeV [21.294 MeV]	(D_Zr:21)
94Zr40 + 2 D* --> 94Zr40 + 4He2 + 23.847 MeV [3.357 MeV]	(D_Zr:22)
94Zr40 + 3 D* --> 94Zr40 + 6Li3 + 25.320 MeV [-5.952 MeV]	(D_Zr:23)
94Zr40 + 5 D* --> 94Zr40 + 10B5 + 53.628 MeV [-0.265 MeV]	(D_Zr:24)
94Zr40 + 6 D* --> 94Zr40 + 12C6 + 78.814 MeV [13.092 MeV]	(D_Zr:25)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
 Creating Stable Isotope Z Via Nuclear Catalytic Action

94Zr40 + 7 D\* --> 94Zr40 + 14N7 + 89.087 MeV [11.193 MeV] (D\_Zr:26)

94Zr40 + 8 D\* --> 94Zr40 + 16O8 + 109.823 MeV [19.421 MeV] (D\_Zr:27)

94Zr40 + 10 D\* --> 94Zr40 + 20Ne10 + 138.399 MeV [21.983 MeV] (D\_Zr:28)

96Zr40 + 2 D\* --> 96Zr40 + 4He2 + 23.847 MeV [3.495 MeV] (D\_Zr:29)

96Zr40 + 3 D\* --> 96Zr40 + 6Li3 + 25.320 MeV [-5.746 MeV] (D\_Zr:30)

96Zr40 + 5 D\* --> 96Zr40 + 10B5 + 53.628 MeV [00.076 MeV] (D\_Zr:31)

96Zr40 + 6 D\* --> 96Zr40 + 12C6 + 78.814 MeV [13.500 MeV] (D\_Zr:32)

96Zr40 + 7 D\* --> 96Zr40 + 14N7 + 89.087 MeV [11.668 MeV] (D\_Zr:33)

96Zr40 + 8 D\* --> 96Zr40 + 16O8 + 109.823 MeV [19.963 MeV] (D\_Zr:34)

96Zr40 + 10 D\* --> 96Zr40 + 20Ne10 + 138.399 MeV [22.656 MeV] (D\_Zr:35)

----- Equations follow for Niobium, Nb, element 41 -----

93Nb41 + 2 D\* --> 93Nb41 + 4He2 + 23.847 MeV [2.786 MeV] (D\_Nb:1)

93Nb41 + 3 D\* --> 93Nb41 + 6Li3 + 25.320 MeV [-6.804 MeV] (D\_Nb:2)

93Nb41 + 5 D\* --> 93Nb41 + 10B5 + 53.628 MeV [-1.668 MeV] (D\_Nb:3)

93Nb41 + 6 D\* --> 93Nb41 + 12C6 + 78.814 MeV [11.419 MeV] (D\_Nb:4)

93Nb41 + 7 D\* --> 93Nb41 + 14N7 + 89.087 MeV [9.253 MeV] (D\_Nb:5)

93Nb41 + 8 D\* --> 93Nb41 + 16O8 + 109.823 MeV [17.216 MeV] (D\_Nb:6)

93Nb41 + 10 D\* --> 93Nb41 + 20Ne10 + 138.399 MeV [19.258 MeV] (D\_Nb:7)

----- Equations follow for Molybdenum, Mo, element 42 -----

92Mo42 + 2 D\* --> 92Mo42 + 4He2 + 23.847 MeV [2.210 MeV] (D\_Mo:1)

92Mo42 + 3 D\* --> 92Mo42 + 6Li3 + 25.320 MeV [-7.662 MeV] (D\_Mo:2)

92Mo42 + 5 D\* --> 92Mo42 + 10B5 + 53.628 MeV [-3.080 MeV] (D\_Mo:3)

92Mo42 + 6 D\* --> 92Mo42 + 12C6 + 78.814 MeV [9.734 MeV] (D\_Mo:4)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
Creating Stable Isotope Z Via Nuclear Catalytic Action

92Mo42 + 7 D* --> 92Mo42 + 14N7 + 89.087 MeV [7.299 MeV]	(D_Mo:5)
92Mo42 + 8 D* --> 92Mo42 + 16O8 + 109.823 MeV [14.996 MeV]	(D_Mo:6)
92Mo42 + 10 D* --> 92Mo42 + 20Ne10 + 138.399 MeV [16.514 MeV]	(D_Mo:7)
94Mo42 + 2 D* --> 94Mo42 + 4He2 + 23.847 MeV [2.358 MeV]	(D_Mo:8)
94Mo42 + 3 D* --> 94Mo42 + 6Li3 + 25.320 MeV [-7.441 MeV]	(D_Mo:9)
94Mo42 + 5 D* --> 94Mo42 + 10B5 + 53.628 MeV [-2.715 MeV]	(D_Mo:10)
94Mo42 + 6 D* --> 94Mo42 + 12C6 + 78.814 MeV [10.171 MeV]	(D_Mo:11)
94Mo42 + 7 D* --> 94Mo42 + 14N7 + 89.087 MeV [7.807 MeV]	(D_Mo:12)
94Mo42 + 8 D* --> 94Mo42 + 16O8 + 109.823 MeV [15.574 MeV]	(D_Mo:13)
94Mo42 + 10 D* --> 94Mo42 + 20Ne10 + 138.399 MeV [17.231 MeV]	(D_Mo:14)
95Mo42 + 2 D* --> 95Mo42 + 4He2 + 23.847 MeV [2.430 MeV]	(D_Mo:15)
95Mo42 + 3 D* --> 95Mo42 + 6Li3 + 25.320 MeV [-7.332 MeV]	(D_Mo:16)
95Mo42 + 5 D* --> 95Mo42 + 10B5 + 53.628 MeV [-2.535 MeV]	(D_Mo:17)
95Mo42 + 6 D* --> 95Mo42 + 12C6 + 78.814 MeV [10.385 MeV]	(D_Mo:18)
95Mo42 + 7 D* --> 95Mo42 + 14N7 + 89.087 MeV [8.056 MeV]	(D_Mo:19)
95Mo42 + 8 D* --> 95Mo42 + 16O8 + 109.823 MeV [15.858 MeV]	(D_Mo:20)
95Mo42 + 10 D* --> 95Mo42 + 20Ne10 + 138.399 MeV [17.583 MeV]	(D_Mo:21)
96Mo42 + 2 D* --> 96Mo42 + 4He2 + 23.847 MeV [2.502 MeV]	(D_Mo:22)
96Mo42 + 3 D* --> 96Mo42 + 6Li3 + 25.320 MeV [-7.225 MeV]	(D_Mo:23)
96Mo42 + 5 D* --> 96Mo42 + 10B5 + 53.628 MeV [-2.358 MeV]	(D_Mo:24)
96Mo42 + 6 D* --> 96Mo42 + 12C6 + 78.814 MeV [10.597 MeV]	(D_Mo:25)
96Mo42 + 7 D* --> 96Mo42 + 14N7 + 89.087 MeV [8.302 MeV]	(D_Mo:26)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
Creating Stable Isotope Z Via Nuclear Catalytic Action

96Mo42 + 8 D* --> 96Mo42 + 16O8 + 109.823 MeV [16.139 MeV]	(D_Mo:27)
96Mo42 + 10 D* --> 96Mo42 + 20Ne10 + 138.399 MeV [17.932 MeV]	(D_Mo:28)
97Mo42 + 2 D* --> 97Mo42 + 4He2 + 23.847 MeV [2.573 MeV]	(D_Mo:29)
97Mo42 + 3 D* --> 97Mo42 + 6Li3 + 25.320 MeV [-7.120 MeV]	(D_Mo:30)
97Mo42 + 5 D* --> 97Mo42 + 10B5 + 53.628 MeV [-2.183 MeV]	(D_Mo:31)
97Mo42 + 6 D* --> 97Mo42 + 12C6 + 78.814 MeV [10.806 MeV]	(D_Mo:32)
97Mo42 + 7 D* --> 97Mo42 + 14N7 + 89.087 MeV [8.546 MeV]	(D_Mo:33)
97Mo42 + 8 D* --> 97Mo42 + 16O8 + 109.823 MeV [16.416 MeV]	(D_Mo:34)
97Mo42 + 10 D* --> 97Mo42 + 20Ne10 + 138.399 MeV [18.276 MeV]	(D_Mo:35)
98Mo42 + 2 D* --> 98Mo42 + 4He2 + 23.847 MeV [2.643 MeV]	(D_Mo:36)
98Mo42 + 3 D* --> 98Mo42 + 6Li3 + 25.320 MeV [-7.015 MeV]	(D_Mo:37)
98Mo42 + 5 D* --> 98Mo42 + 10B5 + 53.628 MeV [-2.010 MeV]	(D_Mo:38)
98Mo42 + 6 D* --> 98Mo42 + 12C6 + 78.814 MeV [11.013 MeV]	(D_Mo:39)
98Mo42 + 7 D* --> 98Mo42 + 14N7 + 89.087 MeV [8.786 MeV]	(D_Mo:40)
98Mo42 + 8 D* --> 98Mo42 + 16O8 + 109.823 MeV [16.690 MeV]	(D_Mo:41)
98Mo42 + 10 D* --> 98Mo42 + 20Ne10 + 138.399 MeV [18.616 MeV]	(D_Mo:42)
100Mo42 + 2 D* --> 100Mo42 + 4He2 + 23.847 MeV [2.779 MeV]	(D_Mo:43)
100Mo42 + 3 D* --> 100Mo42 + 6Li3 + 25.320 MeV [-6.811 MeV]	(D_Mo:44)
100Mo42 + 5 D* --> 100Mo42 + 10B5 + 53.628 MeV [-1.671 MeV]	(D_Mo:45)
100Mo42 + 6 D* --> 100Mo42 + 12C6 + 78.814 MeV [11.419 MeV]	(D_Mo:46)
100Mo42 + 7 D* --> 100Mo42 + 14N7 + 89.087 MeV [9.258 MeV]	(D_Mo:47)
100Mo42 + 8 D* --> 100Mo42 + 16O8 + 109.823 MeV [17.228 MeV]	(D_Mo:48)

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Creating Stable Isotope Z Via Nuclear Catalytic Action

100Mo42 + 10 D\* --> 100Mo42 + 20Ne10 + 138.399 MeV [19.285 MeV] (D\_Mo:49)

----- Equations follow for Ruthenium, Ru, element 44 -----

96Ru44 + 2 D\* --> 96Ru44 + 4He2 + 23.847 MeV [1.509 MeV] (D\_Ru:1)

96Ru44 + 3 D\* --> 96Ru44 + 6Li3 + 25.320 MeV [-8.705 MeV] (D\_Ru:2)

96Ru44 + 5 D\* --> 96Ru44 + 10B5 + 53.628 MeV [-4.792 MeV] (D\_Ru:3)

96Ru44 + 6 D\* --> 96Ru44 + 12C6 + 78.814 MeV [7.694 MeV] (D\_Ru:4)

96Ru44 + 7 D\* --> 96Ru44 + 14N7 + 89.087 MeV [4.936 MeV] (D\_Ru:5)

96Ru44 + 8 D\* --> 96Ru44 + 16O8 + 109.823 MeV [12.315 MeV] (D\_Ru:6)

96Ru44 + 10 D\* --> 96Ru44 + 20Ne10 + 138.399 MeV [13.207 MeV] (D\_Ru:7)

98Ru44 + 2 D\* --> 98Ru44 + 4He2 + 23.847 MeV [1.656 MeV] (D\_Ru:8)

98Ru44 + 3 D\* --> 98Ru44 + 6Li3 + 25.320 MeV [-8.485 MeV] (D\_Ru:9)

98Ru44 + 5 D\* --> 98Ru44 + 10B5 + 53.628 MeV [-4.429 MeV] (D\_Ru:10)

98Ru44 + 6 D\* --> 98Ru44 + 12C6 + 78.814 MeV [8.128 MeV] (D\_Ru:11)

98Ru44 + 7 D\* --> 98Ru44 + 14N7 + 89.087 MeV [5.440 MeV] (D\_Ru:12)

98Ru44 + 8 D\* --> 98Ru44 + 16O8 + 109.823 MeV [12.888 MeV] (D\_Ru:13)

98Ru44 + 10 D\* --> 98Ru44 + 20Ne10 + 138.399 MeV [13.919 MeV] (D\_Ru:14)

99Ru44 + 2 D\* --> 99Ru44 + 4He2 + 23.847 MeV [1.728 MeV] (D\_Ru:15)

99Ru44 + 3 D\* --> 99Ru44 + 6Li3 + 25.320 MeV [-8.377 MeV] (D\_Ru:16)

99Ru44 + 5 D\* --> 99Ru44 + 10B5 + 53.628 MeV [-4.251 MeV] (D\_Ru:17)

99Ru44 + 6 D\* --> 99Ru44 + 12C6 + 78.814 MeV [8.341 MeV] (D\_Ru:18)

99Ru44 + 7 D\* --> 99Ru44 + 14N7 + 89.087 MeV [5.688 MeV] (D\_Ru:19)

99Ru44 + 8 D\* --> 99Ru44 + 16O8 + 109.823 MeV [13.170 MeV] (D\_Ru:20)

99Ru44 + 10 D\* --> 99Ru44 + 20Ne10 + 138.399 MeV [14.268 MeV] (D\_Ru:21)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
Creating Stable Isotope Z Via Nuclear Catalytic Action

100Ru44 + 2 D* --> 100Ru44 + 4He2 + 23.847 MeV [1.799 MeV]	(D_Ru:22)
100Ru44 + 3 D* --> 100Ru44 + 6Li3 + 25.320 MeV [-8.271 MeV]	(D_Ru:23)
100Ru44 + 5 D* --> 100Ru44 + 10B5 + 53.628 MeV [-4.075 MeV]	(D_Ru:24)
100Ru44 + 6 D* --> 100Ru44 + 12C6 + 78.814 MeV [8.551 MeV]	(D_Ru:25)
100Ru44 + 7 D* --> 100Ru44 + 14N7 + 89.087 MeV [5.932 MeV]	(D_Ru:26)
100Ru44 + 8 D* --> 100Ru44 + 16O8 + 109.823 MeV [13.449 MeV]	(D_Ru:27)
100Ru44 + 10 D* --> 100Ru44 + 20Ne10 + 138.399 MeV [14.614 MeV]	(D_Ru:28)
101Ru44 + 2 D* --> 101Ru44 + 4He2 + 23.847 MeV [1.870 MeV]	(D_Ru:29)
101Ru44 + 3 D* --> 101Ru44 + 6Li3 + 25.320 MeV [-8.166 MeV]	(D_Ru:30)
101Ru44 + 5 D* --> 101Ru44 + 10B5 + 53.628 MeV [-3.901 MeV]	(D_Ru:31)
101Ru44 + 6 D* --> 101Ru44 + 12C6 + 78.814 MeV [8.759 MeV]	(D_Ru:32)
101Ru44 + 7 D* --> 101Ru44 + 14N7 + 89.087 MeV [6.174 MeV]	(D_Ru:33)
101Ru44 + 8 D* --> 101Ru44 + 16O8 + 109.823 MeV [13.724 MeV]	(D_Ru:34)
101Ru44 + 10 D* --> 101Ru44 + 20Ne10 + 138.399 MeV [14.956 MeV]	(D_Ru:35)
102Ru44 + 2 D* --> 102Ru44 + 4He2 + 23.847 MeV [1.939 MeV]	(D_Ru:36)
102Ru44 + 3 D* --> 102Ru44 + 6Li3 + 25.320 MeV [-8.062 MeV]	(D_Ru:37)
102Ru44 + 5 D* --> 102Ru44 + 10B5 + 53.628 MeV [-3.730 MeV]	(D_Ru:38)
102Ru44 + 6 D* --> 102Ru44 + 12C6 + 78.814 MeV [8.965 MeV]	(D_Ru:39)
102Ru44 + 7 D* --> 102Ru44 + 14N7 + 89.087 MeV [6.413 MeV]	(D_Ru:40)
102Ru44 + 8 D* --> 102Ru44 + 16O8 + 109.823 MeV [13.996 MeV]	(D_Ru:41)
102Ru44 + 10 D* --> 102Ru44 + 20Ne10 + 138.399 MeV [15.294 MeV]	(D_Ru:42)
104Ru44 + 2 D* --> 104Ru44 + 4He2 + 23.847 MeV [2.075 MeV]	(D_Ru:43)

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104Ru44 + 3 D\* --> 104Ru44 + 6Li3 + 25.320 MeV [-7.859 MeV] (D\_Ru:44)

104Ru44 + 5 D\* --> 104Ru44 + 10B5 + 53.628 MeV [-3.392 MeV] (D\_Ru:45)

104Ru44 + 6 D\* --> 104Ru44 + 12C6 + 78.814 MeV [9.368 MeV] (D\_Ru:46)

104Ru44 + 7 D\* --> 104Ru44 + 14N7 + 89.087 MeV [6.883 MeV] (D\_Ru:47)

104Ru44 + 8 D\* --> 104Ru44 + 16O8 + 109.823 MeV [14.532 MeV] (D\_Ru:48)

104Ru44 + 10 D\* --> 104Ru44 + 20Ne10 + 138.399 MeV [15.960 MeV] (D\_Ru:49)

----- Equations follow for Rhodium, Rh, element 45 -----

103Rh45 + 2 D\* --> 103Rh45 + 4He2 + 23.847 MeV [1.522 MeV] (D\_Rh:1)

103Rh45 + 3 D\* --> 103Rh45 + 6Li3 + 25.320 MeV [-8.684 MeV] (D\_Rh:2)

103Rh45 + 5 D\* --> 103Rh45 + 10B5 + 53.628 MeV [-4.751 MeV] (D\_Rh:3)

103Rh45 + 6 D\* --> 103Rh45 + 12C6 + 78.814 MeV [7.746 MeV] (D\_Rh:4)

103Rh45 + 7 D\* --> 103Rh45 + 14N7 + 89.087 MeV [5.000 MeV] (D\_Rh:5)

103Rh45 + 8 D\* --> 103Rh45 + 16O8 + 109.823 MeV [12.392 MeV] (D\_Rh:6)

103Rh45 + 10 D\* --> 103Rh45 + 20Ne10 + 138.399 MeV [13.312 MeV] (D\_Rh:7)

----- Equations follow for Palladium, Pd, element 46 -----

102Pd46 + 2 D\* --> 102Pd46 + 4He2 + 23.847 MeV [00.965 MeV] (D\_Pd:1)

102Pd46 + 3 D\* --> 102Pd46 + 6Li3 + 25.320 MeV [-9.514 MeV] (D\_Pd:2)

102Pd46 + 5 D\* --> 102Pd46 + 10B5 + 53.628 MeV [-6.120 MeV] (D\_Pd:3)

102Pd46 + 6 D\* --> 102Pd46 + 12C6 + 78.814 MeV [6.114 MeV] (D\_Pd:4)

102Pd46 + 7 D\* --> 102Pd46 + 14N7 + 89.087 MeV [3.106 MeV] (D\_Pd:5)

102Pd46 + 8 D\* --> 102Pd46 + 16O8 + 109.823 MeV [10.238 MeV] (D\_Pd:6)

102Pd46 + 10 D\* --> 102Pd46 + 20Ne10 + 138.399 MeV [10.649 MeV] (D\_Pd:7)

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104Pd46 + 2 D* --> 104Pd46 + 4He2 + 23.847 MeV [1.107 MeV]	(D_Pd:8)
104Pd46 + 3 D* --> 104Pd46 + 6Li3 + 25.320 MeV [-9.302 MeV]	(D_Pd:9)
104Pd46 + 5 D* --> 104Pd46 + 10B5 + 53.628 MeV [-5.768 MeV]	(D_Pd:10)
104Pd46 + 6 D* --> 104Pd46 + 12C6 + 78.814 MeV [6.534 MeV]	(D_Pd:11)
104Pd46 + 7 D* --> 104Pd46 + 14N7 + 89.087 MeV [3.594 MeV]	(D_Pd:12)
104Pd46 + 8 D* --> 104Pd46 + 16O8 + 109.823 MeV [10.795 MeV]	(D_Pd:13)
104Pd46 + 10 D* --> 104Pd46 + 20Ne10 + 138.399 MeV [11.339 MeV]	(D_Pd:14)
105Pd46 + 2 D* --> 105Pd46 + 4He2 + 23.847 MeV [1.177 MeV]	(D_Pd:15)
105Pd46 + 3 D* --> 105Pd46 + 6Li3 + 25.320 MeV [-9.197 MeV]	(D_Pd:16)
105Pd46 + 5 D* --> 105Pd46 + 10B5 + 53.628 MeV [-5.596 MeV]	(D_Pd:17)
105Pd46 + 6 D* --> 105Pd46 + 12C6 + 78.814 MeV [6.740 MeV]	(D_Pd:18)
105Pd46 + 7 D* --> 105Pd46 + 14N7 + 89.087 MeV [3.835 MeV]	(D_Pd:19)
105Pd46 + 8 D* --> 105Pd46 + 16O8 + 109.823 MeV [11.068 MeV]	(D_Pd:20)
105Pd46 + 10 D* --> 105Pd46 + 20Ne10 + 138.399 MeV [11.679 MeV]	(D_Pd:21)
106Pd46 + 2 D* --> 106Pd46 + 4He2 + 23.847 MeV [1.246 MeV]	(D_Pd:22)
106Pd46 + 3 D* --> 106Pd46 + 6Li3 + 25.320 MeV [-9.094 MeV]	(D_Pd:23)
106Pd46 + 5 D* --> 106Pd46 + 10B5 + 53.628 MeV [-5.425 MeV]	(D_Pd:24)
106Pd46 + 6 D* --> 106Pd46 + 12C6 + 78.814 MeV [6.945 MeV]	(D_Pd:25)
106Pd46 + 7 D* --> 106Pd46 + 14N7 + 89.087 MeV [4.072 MeV]	(D_Pd:26)
106Pd46 + 8 D* --> 106Pd46 + 16O8 + 109.823 MeV [11.339 MeV]	(D_Pd:27)
106Pd46 + 10 D* --> 106Pd46 + 20Ne10 + 138.399 MeV [12.015 MeV]	(D_Pd:28)
108Pd46 + 2 D* --> 108Pd46 + 4He2 + 23.847 MeV [1.381 MeV]	(D_Pd:29)
108Pd46 + 3 D* --> 108Pd46 + 6Li3 + 25.320 MeV [-8.892 MeV]	(D_Pd:30)

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108Pd46 + 5 D\* --> 108Pd46 + 10B5 + 53.628 MeV [-5.089 MeV] (D\_Pd:31)

108Pd46 + 6 D\* --> 108Pd46 + 12C6 + 78.814 MeV [7.346 MeV] (D\_Pd:32)

108Pd46 + 7 D\* --> 108Pd46 + 14N7 + 89.087 MeV [4.539 MeV] (D\_Pd:33)

108Pd46 + 8 D\* --> 108Pd46 + 16O8 + 109.823 MeV [11.871 MeV] (D\_Pd:34)

108Pd46 + 10 D\* --> 108Pd46 + 20Ne10 + 138.399 MeV [12.677 MeV] (D\_Pd:35)

110Pd46 + 2 D\* --> 110Pd46 + 4He2 + 23.847 MeV [1.514 MeV] (D\_Pd:36)

110Pd46 + 3 D\* --> 110Pd46 + 6Li3 + 25.320 MeV [-8.694 MeV] (D\_Pd:37)

110Pd46 + 5 D\* --> 110Pd46 + 10B5 + 53.628 MeV [-4.761 MeV] (D\_Pd:38)

110Pd46 + 6 D\* --> 110Pd46 + 12C6 + 78.814 MeV [7.739 MeV] (D\_Pd:39)

110Pd46 + 7 D\* --> 110Pd46 + 14N7 + 89.087 MeV [4.996 MeV] (D\_Pd:40)

110Pd46 + 8 D\* --> 110Pd46 + 16O8 + 109.823 MeV [12.392 MeV] (D\_Pd:41)

110Pd46 + 10 D\* --> 110Pd46 + 20Ne10 + 138.399 MeV [13.325 MeV] (D\_Pd:42)

----- Equations follow for Silver, Ag, element 47 -----

107Ag47 + 2 D\* --> 107Ag47 + 4He2 + 23.847 MeV [00.835 MeV] (D\_Ag:1)

107Ag47 + 3 D\* --> 107Ag47 + 6Li3 + 25.320 MeV [-9.707 MeV] (D\_Ag:2)

107Ag47 + 5 D\* --> 107Ag47 + 10B5 + 53.628 MeV [-6.434 MeV] (D\_Ag:3)

107Ag47 + 6 D\* --> 107Ag47 + 12C6 + 78.814 MeV [5.741 MeV] (D\_Ag:4)

107Ag47 + 7 D\* --> 107Ag47 + 14N7 + 89.087 MeV [2.677 MeV] (D\_Ag:5)

107Ag47 + 8 D\* --> 107Ag47 + 16O8 + 109.823 MeV [9.753 MeV] (D\_Ag:6)

107Ag47 + 10 D\* --> 107Ag47 + 20Ne10 + 138.399 MeV [10.056 MeV] (D\_Ag:7)

109Ag47 + 2 D\* --> 109Ag47 + 4He2 + 23.847 MeV [00.971 MeV] (D\_Ag:8)

109Ag47 + 3 D\* --> 109Ag47 + 6Li3 + 25.320 MeV [-9.503 MeV] (D\_Ag:9)

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109Ag47 + 5 D\* --> 109Ag47 + 10B5 + 53.628 MeV [-6.095 MeV] (D\_Ag:10)

109Ag47 + 6 D\* --> 109Ag47 + 12C6 + 78.814 MeV [6.146 MeV] (D\_Ag:11)

109Ag47 + 7 D\* --> 109Ag47 + 14N7 + 89.087 MeV [3.147 MeV] (D\_Ag:12)

109Ag47 + 8 D\* --> 109Ag47 + 16O8 + 109.823 MeV [10.290 MeV] (D\_Ag:13)

109Ag47 + 10 D\* --> 109Ag47 + 20Ne10 + 138.399 MeV [10.723 MeV] (D\_Ag:14)

----- Equations follow for Cadmium, Cd, element 48 -----

106Cd48 + 2 D\* --> 106Cd48 + 4He2 + 23.847 MeV [00.284 MeV] (D\_Cd:1)

106Cd48 + 3 D\* --> 106Cd48 + 6Li3 + 25.320 MeV [-10.528 MeV] (D\_Cd:2)

106Cd48 + 5 D\* --> 106Cd48 + 10B5 + 53.628 MeV [-7.787 MeV] (D\_Cd:3)

106Cd48 + 6 D\* --> 106Cd48 + 12C6 + 78.814 MeV [4.126 MeV] (D\_Cd:4)

106Cd48 + 7 D\* --> 106Cd48 + 14N7 + 89.087 MeV [00.802 MeV] (D\_Cd:5)

106Cd48 + 8 D\* --> 106Cd48 + 16O8 + 109.823 MeV [7.623 MeV] (D\_Cd:6)

106Cd48 + 10 D\* --> 106Cd48 + 20Ne10 + 138.399 MeV [7.420 MeV] (D\_Cd:7)

108Cd48 + 2 D\* --> 108Cd48 + 4He2 + 23.847 MeV [00.426 MeV] (D\_Cd:8)

108Cd48 + 3 D\* --> 108Cd48 + 6Li3 + 25.320 MeV [-10.317 MeV] (D\_Cd:9)

108Cd48 + 5 D\* --> 108Cd48 + 10B5 + 53.628 MeV [-7.438 MeV] (D\_Cd:10)

108Cd48 + 6 D\* --> 108Cd48 + 12C6 + 78.814 MeV [4.543 MeV] (D\_Cd:11)

108Cd48 + 7 D\* --> 108Cd48 + 14N7 + 89.087 MeV [1.287 MeV] (D\_Cd:12)

108Cd48 + 8 D\* --> 108Cd48 + 16O8 + 109.823 MeV [8.175 MeV] (D\_Cd:13)

108Cd48 + 10 D\* --> 108Cd48 + 20Ne10 + 138.399 MeV [8.105 MeV] (D\_Cd:14)

110Cd48 + 2 D\* --> 110Cd48 + 4He2 + 23.847 MeV [00.563 MeV] (D\_Cd:15)

110Cd48 + 3 D\* --> 110Cd48 + 6Li3 + 25.320 MeV [-10.111 MeV] (D\_Cd:16)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
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110Cd48 + 5 D* --> 110Cd48 + 10B5 + 53.628 MeV [-7.097 MeV]	(D_Cd:17)
110Cd48 + 6 D* --> 110Cd48 + 12C6 + 78.814 MeV [4.951 MeV]	(D_Cd:18)
110Cd48 + 7 D* --> 110Cd48 + 14N7 + 89.087 MeV [1.762 MeV]	(D_Cd:19)
110Cd48 + 8 D* --> 110Cd48 + 16O8 + 109.823 MeV [8.716 MeV]	(D_Cd:20)
110Cd48 + 10 D* --> 110Cd48 + 20Ne10 + 138.399 MeV [8.777 MeV]	(D_Cd:21)
111Cd48 + 2 D* --> 111Cd48 + 4He2 + 23.847 MeV [00.631 MeV]	(D_Cd:22)
111Cd48 + 3 D* --> 111Cd48 + 6Li3 + 25.320 MeV [-10.010 MeV]	(D_Cd:23)
111Cd48 + 5 D* --> 111Cd48 + 10B5 + 53.628 MeV [-6.929 MeV]	(D_Cd:24)
111Cd48 + 6 D* --> 111Cd48 + 12C6 + 78.814 MeV [5.152 MeV]	(D_Cd:25)
111Cd48 + 7 D* --> 111Cd48 + 14N7 + 89.087 MeV [1.995 MeV]	(D_Cd:26)
111Cd48 + 8 D* --> 111Cd48 + 16O8 + 109.823 MeV [8.982 MeV]	(D_Cd:27)
111Cd48 + 10 D* --> 111Cd48 + 20Ne10 + 138.399 MeV [9.108 MeV]	(D_Cd:28)
112Cd48 + 2 D* --> 112Cd48 + 4He2 + 23.847 MeV [00.698 MeV]	(D_Cd:29)
112Cd48 + 3 D* --> 112Cd48 + 6Li3 + 25.320 MeV [-9.910 MeV]	(D_Cd:30)
112Cd48 + 5 D* --> 112Cd48 + 10B5 + 53.628 MeV [-6.763 MeV]	(D_Cd:31)
112Cd48 + 6 D* --> 112Cd48 + 12C6 + 78.814 MeV [5.351 MeV]	(D_Cd:32)
112Cd48 + 7 D* --> 112Cd48 + 14N7 + 89.087 MeV [2.226 MeV]	(D_Cd:33)
112Cd48 + 8 D* --> 112Cd48 + 16O8 + 109.823 MeV [9.245 MeV]	(D_Cd:34)
112Cd48 + 10 D* --> 112Cd48 + 20Ne10 + 138.399 MeV [9.435 MeV]	(D_Cd:35)
113Cd48 + 2 D* --> 113Cd48 + 4He2 + 23.847 MeV [00.764 MeV]	(D_Cd:36)
113Cd48 + 3 D* --> 113Cd48 + 6Li3 + 25.320 MeV [-9.811 MeV]	(D_Cd:37)
113Cd48 + 5 D* --> 113Cd48 + 10B5 + 53.628 MeV [-6.599 MeV]	(D_Cd:38)
113Cd48 + 6 D* --> 113Cd48 + 12C6 + 78.814 MeV [5.547 MeV]	(D_Cd:39)

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113Cd48 + 7 D\* --> 113Cd48 + 14N7 + 89.087 MeV [2.455 MeV] (D\_Cd:40)

113Cd48 + 8 D\* --> 113Cd48 + 16O8 + 109.823 MeV [9.506 MeV] (D\_Cd:41)

113Cd48 + 10 D\* --> 113Cd48 + 20Ne10 + 138.399 MeV [9.759 MeV] (D\_Cd:42)

114Cd48 + 2 D\* --> 114Cd48 + 4He2 + 23.847 MeV [00.829 MeV] (D\_Cd:43)

114Cd48 + 3 D\* --> 114Cd48 + 6Li3 + 25.320 MeV [-9.713 MeV] (D\_Cd:44)

114Cd48 + 5 D\* --> 114Cd48 + 10B5 + 53.628 MeV [-6.437 MeV] (D\_Cd:45)

114Cd48 + 6 D\* --> 114Cd48 + 12C6 + 78.814 MeV [5.741 MeV] (D\_Cd:46)

114Cd48 + 7 D\* --> 114Cd48 + 14N7 + 89.087 MeV [2.681 MeV] (D\_Cd:47)

114Cd48 + 8 D\* --> 114Cd48 + 16O8 + 109.823 MeV [9.763 MeV] (D\_Cd:48)

114Cd48 + 10 D\* --> 114Cd48 + 20Ne10 + 138.399 MeV [10.080 MeV] (D\_Cd:49)

116Cd48 + 2 D\* --> 116Cd48 + 4He2 + 23.847 MeV [00.958 MeV] (D\_Cd:50)

116Cd48 + 3 D\* --> 116Cd48 + 6Li3 + 25.320 MeV [-9.521 MeV] (D\_Cd:51)

116Cd48 + 5 D\* --> 116Cd48 + 10B5 + 53.628 MeV [-6.117 MeV] (D\_Cd:52)

116Cd48 + 6 D\* --> 116Cd48 + 12C6 + 78.814 MeV [6.124 MeV] (D\_Cd:53)

116Cd48 + 7 D\* --> 116Cd48 + 14N7 + 89.087 MeV [3.127 MeV] (D\_Cd:54)

116Cd48 + 8 D\* --> 116Cd48 + 16O8 + 109.823 MeV [10.271 MeV] (D\_Cd:55)

116Cd48 + 10 D\* --> 116Cd48 + 20Ne10 + 138.399 MeV [10.712 MeV] (D\_Cd:56)

----- Equations follow for Indium, In, element 49 -----

113In49 + 2 D\* --> 113In49 + 4He2 + 23.847 MeV [00.293 MeV] (D\_In:1)

113In49 + 3 D\* --> 113In49 + 6Li3 + 25.320 MeV [-10.514 MeV] (D\_In:2)

113In49 + 5 D\* --> 113In49 + 10B5 + 53.628 MeV [-7.757 MeV] (D\_In:3)

113In49 + 6 D\* --> 113In49 + 12C6 + 78.814 MeV [4.165 MeV] (D\_In:4)

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113In49 + 7 D\* --> 113In49 + 14N7 + 89.087 MeV [00.851 MeV] (D\_In:5)

113In49 + 8 D\* --> 113In49 + 16O8 + 109.823 MeV [7.682 MeV] (D\_In:6)

113In49 + 10 D\* --> 113In49 + 20Ne10 + 138.399 MeV [7.502 MeV] (D\_In:7)

115In49 + 2 D\* --> 115In49 + 4He2 + 23.847 MeV [00.426 MeV] (D\_In:8)

115In49 + 3 D\* --> 115In49 + 6Li3 + 25.320 MeV [-10.315 MeV] (D\_In:9)

115In49 + 5 D\* --> 115In49 + 10B5 + 53.628 MeV [-7.428 MeV] (D\_In:10)

115In49 + 6 D\* --> 115In49 + 12C6 + 78.814 MeV [4.559 MeV] (D\_In:11)

115In49 + 7 D\* --> 115In49 + 14N7 + 89.087 MeV [1.309 MeV] (D\_In:12)

115In49 + 8 D\* --> 115In49 + 16O8 + 109.823 MeV [8.204 MeV] (D\_In:13)

115In49 + 10 D\* --> 115In49 + 20Ne10 + 138.399 MeV [8.152 MeV] (D\_In:14)

----- Equations follow for Tin, Sn, element 50 -----

112Sn50 + 2 D\* --> 112Sn50 + 4He2 + 23.847 MeV [-0.247 MeV] (D\_Sn:1)

112Sn50 + 3 D\* --> 112Sn50 + 6Li3 + 25.320 MeV [-11.319 MeV] (D\_Sn:2)

112Sn50 + 5 D\* --> 112Sn50 + 10B5 + 53.628 MeV [-9.086 MeV] (D\_Sn:3)

112Sn50 + 6 D\* --> 112Sn50 + 12C6 + 78.814 MeV [2.578 MeV] (D\_Sn:4)

112Sn50 + 7 D\* --> 112Sn50 + 14N7 + 89.087 MeV [-0.991 MeV] (D\_Sn:5)

112Sn50 + 8 D\* --> 112Sn50 + 16O8 + 109.823 MeV [5.588 MeV] (D\_Sn:6)

112Sn50 + 10 D\* --> 112Sn50 + 20Ne10 + 138.399 MeV [4.910 MeV] (D\_Sn:7)

114Sn50 + 2 D\* --> 114Sn50 + 4He2 + 23.847 MeV [-0.110 MeV] (D\_Sn:8)

114Sn50 + 3 D\* --> 114Sn50 + 6Li3 + 25.320 MeV [-11.114 MeV] (D\_Sn:9)

114Sn50 + 5 D\* --> 114Sn50 + 10B5 + 53.628 MeV [-8.747 MeV] (D\_Sn:10)

114Sn50 + 6 D\* --> 114Sn50 + 12C6 + 78.814 MeV [2.984 MeV] (D\_Sn:11)

114Sn50 + 7 D\* --> 114Sn50 + 14N7 + 89.087 MeV [-0.519 MeV] (D\_Sn:12)

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114Sn50 + 8 D* --> 114Sn50 + 16O8 + 109.823 MeV [6.125 MeV]	(D_Sn:13)
114Sn50 + 10 D* --> 114Sn50 + 20Ne10 + 138.399 MeV [5.577 MeV]	(D_Sn:14)
115Sn50 + 2 D* --> 115Sn50 + 4He2 + 23.847 MeV [-0.043 MeV]	(D_Sn:15)
115Sn50 + 3 D* --> 115Sn50 + 6Li3 + 25.320 MeV [-11.014 MeV]	(D_Sn:16)
115Sn50 + 5 D* --> 115Sn50 + 10B5 + 53.628 MeV [-8.580 MeV]	(D_Sn:17)
115Sn50 + 6 D* --> 115Sn50 + 12C6 + 78.814 MeV [3.184 MeV]	(D_Sn:18)
115Sn50 + 7 D* --> 115Sn50 + 14N7 + 89.087 MeV [-0.287 MeV]	(D_Sn:19)
115Sn50 + 8 D* --> 115Sn50 + 16O8 + 109.823 MeV [6.390 MeV]	(D_Sn:20)
115Sn50 + 10 D* --> 115Sn50 + 20Ne10 + 138.399 MeV [5.906 MeV]	(D_Sn:21)
116Sn50 + 2 D* --> 116Sn50 + 4He2 + 23.847 MeV [00.024 MeV]	(D_Sn:22)
116Sn50 + 3 D* --> 116Sn50 + 6Li3 + 25.320 MeV [-10.914 MeV]	(D_Sn:23)
116Sn50 + 5 D* --> 116Sn50 + 10B5 + 53.628 MeV [-8.415 MeV]	(D_Sn:24)
116Sn50 + 6 D* --> 116Sn50 + 12C6 + 78.814 MeV [3.381 MeV]	(D_Sn:25)
116Sn50 + 7 D* --> 116Sn50 + 14N7 + 89.087 MeV [-0.057 MeV]	(D_Sn:26)
116Sn50 + 8 D* --> 116Sn50 + 16O8 + 109.823 MeV [6.651 MeV]	(D_Sn:27)
116Sn50 + 10 D* --> 116Sn50 + 20Ne10 + 138.399 MeV [6.232 MeV]	(D_Sn:28)
117Sn50 + 2 D* --> 117Sn50 + 4He2 + 23.847 MeV [00.090 MeV]	(D_Sn:29)
117Sn50 + 3 D* --> 117Sn50 + 6Li3 + 25.320 MeV [-10.816 MeV]	(D_Sn:30)
117Sn50 + 5 D* --> 117Sn50 + 10B5 + 53.628 MeV [-8.252 MeV]	(D_Sn:31)
117Sn50 + 6 D* --> 117Sn50 + 12C6 + 78.814 MeV [3.576 MeV]	(D_Sn:32)
117Sn50 + 7 D* --> 117Sn50 + 14N7 + 89.087 MeV [00.170 MeV]	(D_Sn:33)
117Sn50 + 8 D* --> 117Sn50 + 16O8 + 109.823 MeV [6.911 MeV]	(D_Sn:34)

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117Sn50 + 10 D* --> 117Sn50 + 20Ne10 + 138.399 MeV [6.554 MeV]	(D_Sn:35)
118Sn50 + 2 D* --> 118Sn50 + 4He2 + 23.847 MeV [00.155 MeV]	(D_Sn:36)
118Sn50 + 3 D* --> 118Sn50 + 6Li3 + 25.320 MeV [-10.718 MeV]	(D_Sn:37)
118Sn50 + 5 D* --> 118Sn50 + 10B5 + 53.628 MeV [-8.090 MeV]	(D_Sn:38)
118Sn50 + 6 D* --> 118Sn50 + 12C6 + 78.814 MeV [3.770 MeV]	(D_Sn:39)
118Sn50 + 7 D* --> 118Sn50 + 14N7 + 89.087 MeV [00.395 MeV]	(D_Sn:40)
118Sn50 + 8 D* --> 118Sn50 + 16O8 + 109.823 MeV [7.167 MeV]	(D_Sn:41)
118Sn50 + 10 D* --> 118Sn50 + 20Ne10 + 138.399 MeV [6.873 MeV]	(D_Sn:42)
119Sn50 + 2 D* --> 119Sn50 + 4He2 + 23.847 MeV [00.219 MeV]	(D_Sn:43)
119Sn50 + 3 D* --> 119Sn50 + 6Li3 + 25.320 MeV [-10.622 MeV]	(D_Sn:44)
119Sn50 + 5 D* --> 119Sn50 + 10B5 + 53.628 MeV [-7.930 MeV]	(D_Sn:45)
119Sn50 + 6 D* --> 119Sn50 + 12C6 + 78.814 MeV [3.961 MeV]	(D_Sn:46)
119Sn50 + 7 D* --> 119Sn50 + 14N7 + 89.087 MeV [00.618 MeV]	(D_Sn:47)
119Sn50 + 8 D* --> 119Sn50 + 16O8 + 109.823 MeV [7.421 MeV]	(D_Sn:48)
119Sn50 + 10 D* --> 119Sn50 + 20Ne10 + 138.399 MeV [7.189 MeV]	(D_Sn:49)
120Sn50 + 2 D* --> 120Sn50 + 4He2 + 23.847 MeV [00.283 MeV]	(D_Sn:50)
120Sn50 + 3 D* --> 120Sn50 + 6Li3 + 25.320 MeV [-10.527 MeV]	(D_Sn:51)
120Sn50 + 5 D* --> 120Sn50 + 10B5 + 53.628 MeV [-7.772 MeV]	(D_Sn:52)
120Sn50 + 6 D* --> 120Sn50 + 12C6 + 78.814 MeV [4.151 MeV]	(D_Sn:53)
120Sn50 + 7 D* --> 120Sn50 + 14N7 + 89.087 MeV [00.839 MeV]	(D_Sn:54)
120Sn50 + 8 D* --> 120Sn50 + 16O8 + 109.823 MeV [7.673 MeV]	(D_Sn:55)
120Sn50 + 10 D* --> 120Sn50 + 20Ne10 + 138.399 MeV [7.503 MeV]	(D_Sn:56)

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122Sn50 + 2 D\* --> 122Sn50 + 4He2 + 23.847 MeV [00.408 MeV] (D\_Sn:57)

122Sn50 + 3 D\* --> 122Sn50 + 6Li3 + 25.320 MeV [-10.339 MeV] (D\_Sn:58)

122Sn50 + 5 D\* --> 122Sn50 + 10B5 + 53.628 MeV [-7.460 MeV] (D\_Sn:59)

122Sn50 + 6 D\* --> 122Sn50 + 12C6 + 78.814 MeV [4.524 MeV] (D\_Sn:60)

122Sn50 + 7 D\* --> 122Sn50 + 14N7 + 89.087 MeV [1.274 MeV] (D\_Sn:61)

122Sn50 + 8 D\* --> 122Sn50 + 16O8 + 109.823 MeV [8.169 MeV] (D\_Sn:62)

122Sn50 + 10 D\* --> 122Sn50 + 20Ne10 + 138.399 MeV [8.120 MeV] (D\_Sn:63)

124Sn50 + 2 D\* --> 124Sn50 + 4He2 + 23.847 MeV [00.531 MeV] (D\_Sn:64)

124Sn50 + 3 D\* --> 124Sn50 + 6Li3 + 25.320 MeV [-10.155 MeV] (D\_Sn:65)

124Sn50 + 5 D\* --> 124Sn50 + 10B5 + 53.628 MeV [-7.155 MeV] (D\_Sn:66)

124Sn50 + 6 D\* --> 124Sn50 + 12C6 + 78.814 MeV [4.890 MeV] (D\_Sn:67)

124Sn50 + 7 D\* --> 124Sn50 + 14N7 + 89.087 MeV [1.700 MeV] (D\_Sn:68)

124Sn50 + 8 D\* --> 124Sn50 + 16O8 + 109.823 MeV [8.655 MeV] (D\_Sn:69)

124Sn50 + 10 D\* --> 124Sn50 + 20Ne10 + 138.399 MeV [8.726 MeV] (D\_Sn:70)

----- Equations follow for Antimony, Sb, element 51 -----

121Sb51 + 2 D\* --> 121Sb51 + 4He2 + 23.847 MeV [-0.115 MeV] (D\_Sb:1)

121Sb51 + 3 D\* --> 121Sb51 + 6Li3 + 25.320 MeV [-11.120 MeV] (D\_Sb:2)

121Sb51 + 5 D\* --> 121Sb51 + 10B5 + 53.628 MeV [-8.750 MeV] (D\_Sb:3)

121Sb51 + 6 D\* --> 121Sb51 + 12C6 + 78.814 MeV [2.984 MeV] (D\_Sb:4)

121Sb51 + 7 D\* --> 121Sb51 + 14N7 + 89.087 MeV [-0.515 MeV] (D\_Sb:5)

121Sb51 + 8 D\* --> 121Sb51 + 16O8 + 109.823 MeV [6.134 MeV] (D\_Sb:6)

121Sb51 + 10 D\* --> 121Sb51 + 20Ne10 + 138.399 MeV [5.599 MeV] (D\_Sb:7)

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123Sb51 + 2 D\* --> 123Sb51 + 4He2 + 23.847 MeV [00.011 MeV] (D\_Sb:8)

123Sb51 + 3 D\* --> 123Sb51 + 6Li3 + 25.320 MeV [-10.931 MeV] (D\_Sb:9)

123Sb51 + 5 D\* --> 123Sb51 + 10B5 + 53.628 MeV [-8.435 MeV] (D\_Sb:10)

123Sb51 + 6 D\* --> 123Sb51 + 12C6 + 78.814 MeV [3.361 MeV] (D\_Sb:11)

123Sb51 + 7 D\* --> 123Sb51 + 14N7 + 89.087 MeV [-0.076 MeV] (D\_Sb:12)

123Sb51 + 8 D\* --> 123Sb51 + 16O8 + 109.823 MeV [6.634 MeV] (D\_Sb:13)

123Sb51 + 10 D\* --> 123Sb51 + 20Ne10 + 138.399 MeV [6.221 MeV] (D\_Sb:14)

----- Equations follow for Tellurium, Te, element 52 -----

120Te52 + 2 D\* --> 120Te52 + 4He2 + 23.847 MeV [-0.641 MeV] (D\_Te:1)

120Te52 + 3 D\* --> 120Te52 + 6Li3 + 25.320 MeV [-11.905 MeV] (D\_Te:2)

120Te52 + 5 D\* --> 120Te52 + 10B5 + 53.628 MeV [-10.046 MeV] (D\_Te:3)

120Te52 + 6 D\* --> 120Te52 + 12C6 + 78.814 MeV [1.436 MeV] (D\_Te:4)

120Te52 + 7 D\* --> 120Te52 + 14N7 + 89.087 MeV [-2.313 MeV] (D\_Te:5)

120Te52 + 8 D\* --> 120Te52 + 16O8 + 109.823 MeV [4.089 MeV] (D\_Te:6)

120Te52 + 10 D\* --> 120Te52 + 20Ne10 + 138.399 MeV [3.065 MeV] (D\_Te:7)

122Te52 + 2 D\* --> 122Te52 + 4He2 + 23.847 MeV [-0.511 MeV] (D\_Te:8)

122Te52 + 3 D\* --> 122Te52 + 6Li3 + 25.320 MeV [-11.711 MeV] (D\_Te:9)

122Te52 + 5 D\* --> 122Te52 + 10B5 + 53.628 MeV [-9.723 MeV] (D\_Te:10)

122Te52 + 6 D\* --> 122Te52 + 12C6 + 78.814 MeV [1.823 MeV] (D\_Te:11)

122Te52 + 7 D\* --> 122Te52 + 14N7 + 89.087 MeV [-1.863 MeV] (D\_Te:12)

122Te52 + 8 D\* --> 122Te52 + 16O8 + 109.823 MeV [4.602 MeV] (D\_Te:13)

122Te52 + 10 D\* --> 122Te52 + 20Ne10 + 138.399 MeV [3.704 MeV] (D\_Te:14)

123Te52 + 2 D\* --> 123Te52 + 4He2 + 23.847 MeV [-0.447 MeV] (D\_Te:15)

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123Te52 + 3 D* --> 123Te52 + 6Li3 + 25.320 MeV [-11.615 MeV]	(D_Te:16)
123Te52 + 5 D* --> 123Te52 + 10B5 + 53.628 MeV [-9.564 MeV]	(D_Te:17)
123Te52 + 6 D* --> 123Te52 + 12C6 + 78.814 MeV [2.013 MeV]	(D_Te:18)
123Te52 + 7 D* --> 123Te52 + 14N7 + 89.087 MeV [-1.641 MeV]	(D_Te:19)
123Te52 + 8 D* --> 123Te52 + 16O8 + 109.823 MeV [4.855 MeV]	(D_Te:20)
123Te52 + 10 D* --> 123Te52 + 20Ne10 + 138.399 MeV [4.018 MeV]	(D_Te:21)
124Te52 + 2 D* --> 124Te52 + 4He2 + 23.847 MeV [-0.384 MeV]	(D_Te:22)
124Te52 + 3 D* --> 124Te52 + 6Li3 + 25.320 MeV [-11.520 MeV]	(D_Te:23)
124Te52 + 5 D* --> 124Te52 + 10B5 + 53.628 MeV [-9.406 MeV]	(D_Te:24)
124Te52 + 6 D* --> 124Te52 + 12C6 + 78.814 MeV [2.202 MeV]	(D_Te:25)
124Te52 + 7 D* --> 124Te52 + 14N7 + 89.087 MeV [-1.421 MeV]	(D_Te:26)
124Te52 + 8 D* --> 124Te52 + 16O8 + 109.823 MeV [5.105 MeV]	(D_Te:27)
124Te52 + 10 D* --> 124Te52 + 20Ne10 + 138.399 MeV [4.330 MeV]	(D_Te:28)
125Te52 + 2 D* --> 125Te52 + 4He2 + 23.847 MeV [-0.321 MeV]	(D_Te:29)
125Te52 + 3 D* --> 125Te52 + 6Li3 + 25.320 MeV [-11.426 MeV]	(D_Te:30)
125Te52 + 5 D* --> 125Te52 + 10B5 + 53.628 MeV [-9.250 MeV]	(D_Te:31)
125Te52 + 6 D* --> 125Te52 + 12C6 + 78.814 MeV [2.389 MeV]	(D_Te:32)
125Te52 + 7 D* --> 125Te52 + 14N7 + 89.087 MeV [-1.203 MeV]	(D_Te:33)
125Te52 + 8 D* --> 125Te52 + 16O8 + 109.823 MeV [5.354 MeV]	(D_Te:34)
125Te52 + 10 D* --> 125Te52 + 20Ne10 + 138.399 MeV [4.639 MeV]	(D_Te:35)
126Te52 + 2 D* --> 126Te52 + 4He2 + 23.847 MeV [-0.259 MeV]	(D_Te:36)
126Te52 + 3 D* --> 126Te52 + 6Li3 + 25.320 MeV [-11.333 MeV]	(D_Te:37)

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126Te52 + 5 D\* --> 126Te52 + 10B5 + 53.628 MeV [-9.096 MeV] (D\_Te:38)

126Te52 + 6 D\* --> 126Te52 + 12C6 + 78.814 MeV [2.574 MeV] (D\_Te:39)

126Te52 + 7 D\* --> 126Te52 + 14N7 + 89.087 MeV [-0.988 MeV] (D\_Te:40)

126Te52 + 8 D\* --> 126Te52 + 16O8 + 109.823 MeV [5.599 MeV] (D\_Te:41)

126Te52 + 10 D\* --> 126Te52 + 20Ne10 + 138.399 MeV [4.945 MeV] (D\_Te:42)

128Te52 + 2 D\* --> 128Te52 + 4He2 + 23.847 MeV [-0.136 MeV] (D\_Te:43)

128Te52 + 3 D\* --> 128Te52 + 6Li3 + 25.320 MeV [-11.149 MeV] (D\_Te:44)

128Te52 + 5 D\* --> 128Te52 + 10B5 + 53.628 MeV [-8.791 MeV] (D\_Te:45)

128Te52 + 6 D\* --> 128Te52 + 12C6 + 78.814 MeV [2.939 MeV] (D\_Te:46)

128Te52 + 7 D\* --> 128Te52 + 14N7 + 89.087 MeV [-0.563 MeV] (D\_Te:47)

128Te52 + 8 D\* --> 128Te52 + 16O8 + 109.823 MeV [6.084 MeV] (D\_Te:48)

128Te52 + 10 D\* --> 128Te52 + 20Ne10 + 138.399 MeV [5.549 MeV] (D\_Te:49)

130Te52 + 2 D\* --> 130Te52 + 4He2 + 23.847 MeV [-0.016 MeV] (D\_Te:50)

130Te52 + 3 D\* --> 130Te52 + 6Li3 + 25.320 MeV [-10.970 MeV] (D\_Te:51)

130Te52 + 5 D\* --> 130Te52 + 10B5 + 53.628 MeV [-8.493 MeV] (D\_Te:52)

130Te52 + 6 D\* --> 130Te52 + 12C6 + 78.814 MeV [3.297 MeV] (D\_Te:53)

130Te52 + 7 D\* --> 130Te52 + 14N7 + 89.087 MeV [-0.146 MeV] (D\_Te:54)

130Te52 + 8 D\* --> 130Te52 + 16O8 + 109.823 MeV [6.560 MeV] (D\_Te:55)

130Te52 + 10 D\* --> 130Te52 + 20Ne10 + 138.399 MeV [6.142 MeV] (D\_Te:56)

----- Equations follow for Iodine, I, element 53 -----

127I53 + 2 D\* --> 127I53 + 4He2 + 23.847 MeV [-0.651 MeV] (D\_I:1)

127I53 + 3 D\* --> 127I53 + 6Li3 + 25.320 MeV [-11.918 MeV] (D\_I:2)

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127I53 + 5 D\* --> 127I53 + 10B5 + 53.628 MeV [-10.060 MeV] (D\_I:3)

127I53 + 6 D\* --> 127I53 + 12C6 + 78.814 MeV [1.423 MeV] (D\_I:4)

127I53 + 7 D\* --> 127I53 + 14N7 + 89.087 MeV [-2.324 MeV] (D\_I:5)

127I53 + 8 D\* --> 127I53 + 16O8 + 109.823 MeV [4.081 MeV] (D\_I:6)

127I53 + 10 D\* --> 127I53 + 20Ne10 + 138.399 MeV [3.066 MeV] (D\_I:7)

----- Equations follow for Xenon, Xe, element 54 -----

124Xe54 + 2 D\* --> 124Xe54 + 4He2 + 23.847 MeV [-1.298 MeV] (D\_Xe:1)

124Xe54 + 3 D\* --> 124Xe54 + 6Li3 + 25.320 MeV [-12.884 MeV] (D\_Xe:2)

124Xe54 + 5 D\* --> 124Xe54 + 10B5 + 53.628 MeV [-11.657 MeV] (D\_Xe:3)

124Xe54 + 6 D\* --> 124Xe54 + 12C6 + 78.814 MeV [-0.486 MeV] (D\_Xe:4)

124Xe54 + 7 D\* --> 124Xe54 + 14N7 + 89.087 MeV [-4.542 MeV] (D\_Xe:5)

124Xe54 + 8 D\* --> 124Xe54 + 16O8 + 109.823 MeV [1.556 MeV] (D\_Xe:6)

124Xe54 + 10 D\* --> 124Xe54 + 20Ne10 + 138.399 MeV [-0.065 MeV] (D\_Xe:7)

126Xe54 + 2 D\* --> 126Xe54 + 4He2 + 23.847 MeV [-1.168 MeV] (D\_Xe:8)

126Xe54 + 3 D\* --> 126Xe54 + 6Li3 + 25.320 MeV [-12.690 MeV] (D\_Xe:9)

126Xe54 + 5 D\* --> 126Xe54 + 10B5 + 53.628 MeV [-11.336 MeV] (D\_Xe:10)

126Xe54 + 6 D\* --> 126Xe54 + 12C6 + 78.814 MeV [-0.101 MeV] (D\_Xe:11)

126Xe54 + 7 D\* --> 126Xe54 + 14N7 + 89.087 MeV [-4.094 MeV] (D\_Xe:12)

126Xe54 + 8 D\* --> 126Xe54 + 16O8 + 109.823 MeV [2.066 MeV] (D\_Xe:13)

126Xe54 + 10 D\* --> 126Xe54 + 20Ne10 + 138.399 MeV [00.570 MeV] (D\_Xe:14)

128Xe54 + 2 D\* --> 128Xe54 + 4He2 + 23.847 MeV [-1.041 MeV] (D\_Xe:15)

128Xe54 + 3 D\* --> 128Xe54 + 6Li3 + 25.320 MeV [-12.500 MeV] (D\_Xe:16)

128Xe54 + 5 D\* --> 128Xe54 + 10B5 + 53.628 MeV [-11.020 MeV] (D\_Xe:17)

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128Xe54 + 6 D* --> 128Xe54 + 12C6 + 78.814 MeV [00.276 MeV]	(D_Xe:18)
128Xe54 + 7 D* --> 128Xe54 + 14N7 + 89.087 MeV [-3.654 MeV]	(D_Xe:19)
128Xe54 + 8 D* --> 128Xe54 + 16O8 + 109.823 MeV [2.568 MeV]	(D_Xe:20)
128Xe54 + 10 D* --> 128Xe54 + 20Ne10 + 138.399 MeV [1.193 MeV]	(D_Xe:21)
129Xe54 + 2 D* --> 129Xe54 + 4He2 + 23.847 MeV [-0.979 MeV]	(D_Xe:22)
129Xe54 + 3 D* --> 129Xe54 + 6Li3 + 25.320 MeV [-12.406 MeV]	(D_Xe:23)
129Xe54 + 5 D* --> 129Xe54 + 10B5 + 53.628 MeV [-10.865 MeV]	(D_Xe:24)
129Xe54 + 6 D* --> 129Xe54 + 12C6 + 78.814 MeV [00.462 MeV]	(D_Xe:25)
129Xe54 + 7 D* --> 129Xe54 + 14N7 + 89.087 MeV [-3.438 MeV]	(D_Xe:26)
129Xe54 + 8 D* --> 129Xe54 + 16O8 + 109.823 MeV [2.815 MeV]	(D_Xe:27)
129Xe54 + 10 D* --> 129Xe54 + 20Ne10 + 138.399 MeV [1.501 MeV]	(D_Xe:28)
130Xe54 + 2 D* --> 130Xe54 + 4He2 + 23.847 MeV [-0.917 MeV]	(D_Xe:29)
130Xe54 + 3 D* --> 130Xe54 + 6Li3 + 25.320 MeV [-12.314 MeV]	(D_Xe:30)
130Xe54 + 5 D* --> 130Xe54 + 10B5 + 53.628 MeV [-10.711 MeV]	(D_Xe:31)
130Xe54 + 6 D* --> 130Xe54 + 12C6 + 78.814 MeV [00.647 MeV]	(D_Xe:32)
130Xe54 + 7 D* --> 130Xe54 + 14N7 + 89.087 MeV [-3.223 MeV]	(D_Xe:33)
130Xe54 + 8 D* --> 130Xe54 + 16O8 + 109.823 MeV [3.060 MeV]	(D_Xe:34)
130Xe54 + 10 D* --> 130Xe54 + 20Ne10 + 138.399 MeV [1.806 MeV]	(D_Xe:35)
131Xe54 + 2 D* --> 131Xe54 + 4He2 + 23.847 MeV [-0.856 MeV]	(D_Xe:36)
131Xe54 + 3 D* --> 131Xe54 + 6Li3 + 25.320 MeV [-12.222 MeV]	(D_Xe:37)
131Xe54 + 5 D* --> 131Xe54 + 10B5 + 53.628 MeV [-10.559 MeV]	(D_Xe:38)
131Xe54 + 6 D* --> 131Xe54 + 12C6 + 78.814 MeV [00.829 MeV]	(D_Xe:39)

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131Xe54 + 7 D* --> 131Xe54 + 14N7 + 89.087 MeV [-3.010 MeV]	(D_Xe:40)
131Xe54 + 8 D* --> 131Xe54 + 16O8 + 109.823 MeV [3.302 MeV]	(D_Xe:41)
131Xe54 + 10 D* --> 131Xe54 + 20Ne10 + 138.399 MeV [2.108 MeV]	(D_Xe:42)
132Xe54 + 2 D* --> 132Xe54 + 4He2 + 23.847 MeV [-0.795 MeV]	(D_Xe:43)
132Xe54 + 3 D* --> 132Xe54 + 6Li3 + 25.320 MeV [-12.131 MeV]	(D_Xe:44)
132Xe54 + 5 D* --> 132Xe54 + 10B5 + 53.628 MeV [-10.408 MeV]	(D_Xe:45)
132Xe54 + 6 D* --> 132Xe54 + 12C6 + 78.814 MeV [1.010 MeV]	(D_Xe:46)
132Xe54 + 7 D* --> 132Xe54 + 14N7 + 89.087 MeV [-2.800 MeV]	(D_Xe:47)
132Xe54 + 8 D* --> 132Xe54 + 16O8 + 109.823 MeV [3.543 MeV]	(D_Xe:48)
132Xe54 + 10 D* --> 132Xe54 + 20Ne10 + 138.399 MeV [2.408 MeV]	(D_Xe:49)
134Xe54 + 2 D* --> 134Xe54 + 4He2 + 23.847 MeV [-0.675 MeV]	(D_Xe:50)
134Xe54 + 3 D* --> 134Xe54 + 6Li3 + 25.320 MeV [-11.952 MeV]	(D_Xe:51)
134Xe54 + 5 D* --> 134Xe54 + 10B5 + 53.628 MeV [-10.110 MeV]	(D_Xe:52)
134Xe54 + 6 D* --> 134Xe54 + 12C6 + 78.814 MeV [1.367 MeV]	(D_Xe:53)
134Xe54 + 7 D* --> 134Xe54 + 14N7 + 89.087 MeV [-2.384 MeV]	(D_Xe:54)
134Xe54 + 8 D* --> 134Xe54 + 16O8 + 109.823 MeV [4.017 MeV]	(D_Xe:55)
134Xe54 + 10 D* --> 134Xe54 + 20Ne10 + 138.399 MeV [2.999 MeV]	(D_Xe:56)
136Xe54 + 2 D* --> 136Xe54 + 4He2 + 23.847 MeV [-0.558 MeV]	(D_Xe:57)
136Xe54 + 3 D* --> 136Xe54 + 6Li3 + 25.320 MeV [-11.776 MeV]	(D_Xe:58)
136Xe54 + 5 D* --> 136Xe54 + 10B5 + 53.628 MeV [-9.817 MeV]	(D_Xe:59)
136Xe54 + 6 D* --> 136Xe54 + 12C6 + 78.814 MeV [1.718 MeV]	(D_Xe:60)
136Xe54 + 7 D* --> 136Xe54 + 14N7 + 89.087 MeV [-1.976 MeV]	(D_Xe:61)
136Xe54 + 8 D* --> 136Xe54 + 16O8 + 109.823 MeV [4.483 MeV]	(D_Xe:62)

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136Xe54 + 10 D\* --> 136Xe54 + 20Ne10 + 138.399 MeV [3.580 MeV] (D\_Xe:63)

----- Equations follow for Cesium, Cs, element 55 -----

133Cs55 + 2 D\* --> 133Cs55 + 4He2 + 23.847 MeV [-1.182 MeV] (D\_Cs:1)

133Cs55 + 3 D\* --> 133Cs55 + 6Li3 + 25.320 MeV [-12.708 MeV] (D\_Cs:2)

133Cs55 + 5 D\* --> 133Cs55 + 10B5 + 53.628 MeV [-11.360 MeV] (D\_Cs:3)

133Cs55 + 6 D\* --> 133Cs55 + 12C6 + 78.814 MeV [-0.126 MeV] (D\_Cs:4)

133Cs55 + 7 D\* --> 133Cs55 + 14N7 + 89.087 MeV [-4.119 MeV] (D\_Cs:5)

133Cs55 + 8 D\* --> 133Cs55 + 16O8 + 109.823 MeV [2.043 MeV] (D\_Cs:6)

133Cs55 + 10 D\* --> 133Cs55 + 20Ne10 + 138.399 MeV [00.551 MeV] (D\_Cs:7)

----- Equations follow for Barium, Ba, element 56 -----

130Ba56 + 2 D\* --> 130Ba56 + 4He2 + 23.847 MeV [-1.817 MeV] (D\_Ba:1)

130Ba56 + 3 D\* --> 130Ba56 + 6Li3 + 25.320 MeV [-13.658 MeV] (D\_Ba:2)

130Ba56 + 5 D\* --> 130Ba56 + 10B5 + 53.628 MeV [-12.930 MeV] (D\_Ba:3)

130Ba56 + 6 D\* --> 130Ba56 + 12C6 + 78.814 MeV [-2.003 MeV] (D\_Ba:4)

130Ba56 + 7 D\* --> 130Ba56 + 14N7 + 89.087 MeV [-6.300 MeV] (D\_Ba:5)

130Ba56 + 8 D\* --> 130Ba56 + 16O8 + 109.823 MeV [-0.441 MeV] (D\_Ba:6)

130Ba56 + 10 D\* --> 130Ba56 + 20Ne10 + 138.399 MeV [-2.530 MeV] (D\_Ba:7)

132Ba56 + 2 D\* --> 132Ba56 + 4He2 + 23.847 MeV [-1.691 MeV] (D\_Ba:8)

132Ba56 + 3 D\* --> 132Ba56 + 6Li3 + 25.320 MeV [-13.469 MeV] (D\_Ba:9)

132Ba56 + 5 D\* --> 132Ba56 + 10B5 + 53.628 MeV [-12.616 MeV] (D\_Ba:10)

132Ba56 + 6 D\* --> 132Ba56 + 12C6 + 78.814 MeV [-1.627 MeV] (D\_Ba:11)

132Ba56 + 7 D\* --> 132Ba56 + 14N7 + 89.087 MeV [-5.863 MeV] (D\_Ba:12)

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132Ba56 + 8 D* --> 132Ba56 + 16O8 + 109.823 MeV [00.058 MeV]	(D_Ba:13)
132Ba56 + 10 D* --> 132Ba56 + 20Ne10 + 138.399 MeV [-1.910 MeV]	(D_Ba:14)
134Ba56 + 2 D* --> 134Ba56 + 4He2 + 23.847 MeV [-1.567 MeV]	(D_Ba:15)
134Ba56 + 3 D* --> 134Ba56 + 6Li3 + 25.320 MeV [-13.283 MeV]	(D_Ba:16)
134Ba56 + 5 D* --> 134Ba56 + 10B5 + 53.628 MeV [-12.308 MeV]	(D_Ba:17)
134Ba56 + 6 D* --> 134Ba56 + 12C6 + 78.814 MeV [-1.258 MeV]	(D_Ba:18)
134Ba56 + 7 D* --> 134Ba56 + 14N7 + 89.087 MeV [-5.433 MeV]	(D_Ba:19)
134Ba56 + 8 D* --> 134Ba56 + 16O8 + 109.823 MeV [00.548 MeV]	(D_Ba:20)
134Ba56 + 10 D* --> 134Ba56 + 20Ne10 + 138.399 MeV [-1.300 MeV]	(D_Ba:21)
135Ba56 + 2 D* --> 135Ba56 + 4He2 + 23.847 MeV [-1.506 MeV]	(D_Ba:22)
135Ba56 + 3 D* --> 135Ba56 + 6Li3 + 25.320 MeV [-13.192 MeV]	(D_Ba:23)
135Ba56 + 5 D* --> 135Ba56 + 10B5 + 53.628 MeV [-12.156 MeV]	(D_Ba:24)
135Ba56 + 6 D* --> 135Ba56 + 12C6 + 78.814 MeV [-1.076 MeV]	(D_Ba:25)
135Ba56 + 7 D* --> 135Ba56 + 14N7 + 89.087 MeV [-5.221 MeV]	(D_Ba:26)
135Ba56 + 8 D* --> 135Ba56 + 16O8 + 109.823 MeV [00.790 MeV]	(D_Ba:27)
135Ba56 + 10 D* --> 135Ba56 + 20Ne10 + 138.399 MeV [-0.998 MeV]	(D_Ba:28)
136Ba56 + 2 D* --> 136Ba56 + 4He2 + 23.847 MeV [-1.445 MeV]	(D_Ba:29)
136Ba56 + 3 D* --> 136Ba56 + 6Li3 + 25.320 MeV [-13.101 MeV]	(D_Ba:30)
136Ba56 + 5 D* --> 136Ba56 + 10B5 + 53.628 MeV [-12.005 MeV]	(D_Ba:31)
136Ba56 + 6 D* --> 136Ba56 + 12C6 + 78.814 MeV [-0.896 MeV]	(D_Ba:32)
136Ba56 + 7 D* --> 136Ba56 + 14N7 + 89.087 MeV [-5.011 MeV]	(D_Ba:33)
136Ba56 + 8 D* --> 136Ba56 + 16O8 + 109.823 MeV [1.030 MeV]	(D_Ba:34)

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136Ba56 + 10 D\* --> 136Ba56 + 20Ne10 + 138.399 MeV [-0.700 MeV] (D\_Ba:35)

137Ba56 + 2 D\* --> 137Ba56 + 4He2 + 23.847 MeV [-1.385 MeV] (D\_Ba:36)

137Ba56 + 3 D\* --> 137Ba56 + 6Li3 + 25.320 MeV [-13.011 MeV] (D\_Ba:37)

137Ba56 + 5 D\* --> 137Ba56 + 10B5 + 53.628 MeV [-11.856 MeV] (D\_Ba:38)

137Ba56 + 6 D\* --> 137Ba56 + 12C6 + 78.814 MeV [-0.717 MeV] (D\_Ba:39)

137Ba56 + 7 D\* --> 137Ba56 + 14N7 + 89.087 MeV [-4.803 MeV] (D\_Ba:40)

137Ba56 + 8 D\* --> 137Ba56 + 16O8 + 109.823 MeV [1.267 MeV] (D\_Ba:41)

137Ba56 + 10 D\* --> 137Ba56 + 20Ne10 + 138.399 MeV [-0.404 MeV] (D\_Ba:42)

138Ba56 + 2 D\* --> 138Ba56 + 4He2 + 23.847 MeV [-1.326 MeV] (D\_Ba:43)

138Ba56 + 3 D\* --> 138Ba56 + 6Li3 + 25.320 MeV [-12.922 MeV] (D\_Ba:44)

138Ba56 + 5 D\* --> 138Ba56 + 10B5 + 53.628 MeV [-11.708 MeV] (D\_Ba:45)

138Ba56 + 6 D\* --> 138Ba56 + 12C6 + 78.814 MeV [-0.540 MeV] (D\_Ba:46)

138Ba56 + 7 D\* --> 138Ba56 + 14N7 + 89.087 MeV [-4.596 MeV] (D\_Ba:47)

138Ba56 + 8 D\* --> 138Ba56 + 16O8 + 109.823 MeV [1.503 MeV] (D\_Ba:48)

138Ba56 + 10 D\* --> 138Ba56 + 20Ne10 + 138.399 MeV [-0.111 MeV] (D\_Ba:49)

----- Equations follow for Lanthanum, La, element 57 -----

138La57 + 2 D\* --> 138La57 + 4He2 + 23.847 MeV [-1.768 MeV] (D\_La:1)

138La57 + 3 D\* --> 138La57 + 6Li3 + 25.320 MeV [-13.582 MeV] (D\_La:2)

138La57 + 5 D\* --> 138La57 + 10B5 + 53.628 MeV [-12.797 MeV] (D\_La:3)

138La57 + 6 D\* --> 138La57 + 12C6 + 78.814 MeV [-1.841 MeV] (D\_La:4)

138La57 + 7 D\* --> 138La57 + 14N7 + 89.087 MeV [-6.107 MeV] (D\_La:5)

138La57 + 8 D\* --> 138La57 + 16O8 + 109.823 MeV [-0.217 MeV] (D\_La:6)

138La57 + 10 D\* --> 138La57 + 20Ne10 + 138.399 MeV [-2.241 MeV] (D\_La:7)

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139La57 + 2 D\* --> 139La57 + 4He2 + 23.847 MeV [-1.708 MeV] (D\_La:8)

139La57 + 3 D\* --> 139La57 + 6Li3 + 25.320 MeV [-13.492 MeV] (D\_La:9)

139La57 + 5 D\* --> 139La57 + 10B5 + 53.628 MeV [-12.648 MeV] (D\_La:10)

139La57 + 6 D\* --> 139La57 + 12C6 + 78.814 MeV [-1.662 MeV] (D\_La:11)

139La57 + 7 D\* --> 139La57 + 14N7 + 89.087 MeV [-5.900 MeV] (D\_La:12)

139La57 + 8 D\* --> 139La57 + 16O8 + 109.823 MeV [00.020 MeV] (D\_La:13)

139La57 + 10 D\* --> 139La57 + 20Ne10 + 138.399 MeV [-1.946 MeV] (D\_La:14)

----- Equations follow for Cerium, Ce, element 58 -----

136Ce58 + 2 D\* --> 136Ce58 + 4He2 + 23.847 MeV [-2.333 MeV] (D\_Ce:1)

136Ce58 + 3 D\* --> 136Ce58 + 6Li3 + 25.320 MeV [-14.426 MeV] (D\_Ce:2)

136Ce58 + 5 D\* --> 136Ce58 + 10B5 + 53.628 MeV [-14.193 MeV] (D\_Ce:3)

136Ce58 + 6 D\* --> 136Ce58 + 12C6 + 78.814 MeV [-3.509 MeV] (D\_Ce:4)

136Ce58 + 7 D\* --> 136Ce58 + 14N7 + 89.087 MeV [-8.046 MeV] (D\_Ce:5)

136Ce58 + 8 D\* --> 136Ce58 + 16O8 + 109.823 MeV [-2.424 MeV] (D\_Ce:6)

136Ce58 + 10 D\* --> 136Ce58 + 20Ne10 + 138.399 MeV [-4.980 MeV] (D\_Ce:7)

138Ce58 + 2 D\* --> 138Ce58 + 4He2 + 23.847 MeV [-2.209 MeV] (D\_Ce:8)

138Ce58 + 3 D\* --> 138Ce58 + 6Li3 + 25.320 MeV [-14.241 MeV] (D\_Ce:9)

138Ce58 + 5 D\* --> 138Ce58 + 10B5 + 53.628 MeV [-13.886 MeV] (D\_Ce:10)

138Ce58 + 6 D\* --> 138Ce58 + 12C6 + 78.814 MeV [-3.142 MeV] (D\_Ce:11)

138Ce58 + 7 D\* --> 138Ce58 + 14N7 + 89.087 MeV [-7.618 MeV] (D\_Ce:12)

138Ce58 + 8 D\* --> 138Ce58 + 16O8 + 109.823 MeV [-1.936 MeV] (D\_Ce:13)

138Ce58 + 10 D\* --> 138Ce58 + 20Ne10 + 138.399 MeV [-4.372 MeV] (D\_Ce:14)

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140Ce58 + 2 D\* --> 140Ce58 + 4He2 + 23.847 MeV [-2.088 MeV] (D\_Ce:15)

140Ce58 + 3 D\* --> 140Ce58 + 6Li3 + 25.320 MeV [-14.059 MeV] (D\_Ce:16)

140Ce58 + 5 D\* --> 140Ce58 + 10B5 + 53.628 MeV [-13.585 MeV] (D\_Ce:17)

140Ce58 + 6 D\* --> 140Ce58 + 12C6 + 78.814 MeV [-2.781 MeV] (D\_Ce:18)

140Ce58 + 7 D\* --> 140Ce58 + 14N7 + 89.087 MeV [-7.198 MeV] (D\_Ce:19)

140Ce58 + 8 D\* --> 140Ce58 + 16O8 + 109.823 MeV [-1.456 MeV] (D\_Ce:20)

140Ce58 + 10 D\* --> 140Ce58 + 20Ne10 + 138.399 MeV [-3.775 MeV] (D\_Ce:21)

142Ce58 + 2 D\* --> 142Ce58 + 4He2 + 23.847 MeV [-1.969 MeV] (D\_Ce:22)

142Ce58 + 3 D\* --> 142Ce58 + 6Li3 + 25.320 MeV [-13.881 MeV] (D\_Ce:23)

142Ce58 + 5 D\* --> 142Ce58 + 10B5 + 53.628 MeV [-13.289 MeV] (D\_Ce:24)

142Ce58 + 6 D\* --> 142Ce58 + 12C6 + 78.814 MeV [-2.426 MeV] (D\_Ce:25)

142Ce58 + 7 D\* --> 142Ce58 + 14N7 + 89.087 MeV [-6.785 MeV] (D\_Ce:26)

142Ce58 + 8 D\* --> 142Ce58 + 16O8 + 109.823 MeV [-0.985 MeV] (D\_Ce:27)

142Ce58 + 10 D\* --> 142Ce58 + 20Ne10 + 138.399 MeV [-3.187 MeV] (D\_Ce:28)

----- Equations follow for Praseodymium, Pr, element 59 -----

141Pr59 + 2 D\* --> 141Pr59 + 4He2 + 23.847 MeV [-2.467 MeV] (D\_Pr:1)

141Pr59 + 3 D\* --> 141Pr59 + 6Li3 + 25.320 MeV [-14.625 MeV] (D\_Pr:2)

141Pr59 + 5 D\* --> 141Pr59 + 10B5 + 53.628 MeV [-14.518 MeV] (D\_Pr:3)

141Pr59 + 6 D\* --> 141Pr59 + 12C6 + 78.814 MeV [-3.895 MeV] (D\_Pr:4)

141Pr59 + 7 D\* --> 141Pr59 + 14N7 + 89.087 MeV [-8.492 MeV] (D\_Pr:5)

141Pr59 + 8 D\* --> 141Pr59 + 16O8 + 109.823 MeV [-2.928 MeV] (D\_Pr:6)

141Pr59 + 10 D\* --> 141Pr59 + 20Ne10 + 138.399 MeV [-5.598 MeV] (D\_Pr:7)

----- Equations follow for Neodymium, Nd, element 60 -----

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142Nd60 + 2 D* --> 142Nd60 + 4He2 + 23.847 MeV [-2.844 MeV]	(D_Nd:1)
142Nd60 + 3 D* --> 142Nd60 + 6Li3 + 25.320 MeV [-15.188 MeV]	(D_Nd:2)
142Nd60 + 5 D* --> 142Nd60 + 10B5 + 53.628 MeV [-15.447 MeV]	(D_Nd:3)
142Nd60 + 6 D* --> 142Nd60 + 12C6 + 78.814 MeV [-5.005 MeV]	(D_Nd:4)
142Nd60 + 7 D* --> 142Nd60 + 14N7 + 89.087 MeV [-9.781 MeV]	(D_Nd:5)
142Nd60 + 8 D* --> 142Nd60 + 16O8 + 109.823 MeV [-4.394 MeV]	(D_Nd:6)
142Nd60 + 10 D* --> 142Nd60 + 20Ne10 + 138.399 MeV [-7.414 MeV]	(D_Nd:7)
143Nd60 + 2 D* --> 143Nd60 + 4He2 + 23.847 MeV [-2.784 MeV]	(D_Nd:8)
143Nd60 + 3 D* --> 143Nd60 + 6Li3 + 25.320 MeV [-15.097 MeV]	(D_Nd:9)
143Nd60 + 5 D* --> 143Nd60 + 10B5 + 53.628 MeV [-15.296 MeV]	(D_Nd:10)
143Nd60 + 6 D* --> 143Nd60 + 12C6 + 78.814 MeV [-4.824 MeV]	(D_Nd:11)
143Nd60 + 7 D* --> 143Nd60 + 14N7 + 89.087 MeV [-9.570 MeV]	(D_Nd:12)
143Nd60 + 8 D* --> 143Nd60 + 16O8 + 109.823 MeV [-4.154 MeV]	(D_Nd:13)
143Nd60 + 10 D* --> 143Nd60 + 20Ne10 + 138.399 MeV [-7.115 MeV]	(D_Nd:14)
144Nd60 + 2 D* --> 144Nd60 + 4He2 + 23.847 MeV [-2.723 MeV]	(D_Nd:15)
144Nd60 + 3 D* --> 144Nd60 + 6Li3 + 25.320 MeV [-15.007 MeV]	(D_Nd:16)
144Nd60 + 5 D* --> 144Nd60 + 10B5 + 53.628 MeV [-15.147 MeV]	(D_Nd:17)
144Nd60 + 6 D* --> 144Nd60 + 12C6 + 78.814 MeV [-4.645 MeV]	(D_Nd:18)
144Nd60 + 7 D* --> 144Nd60 + 14N7 + 89.087 MeV [-9.362 MeV]	(D_Nd:19)
144Nd60 + 8 D* --> 144Nd60 + 16O8 + 109.823 MeV [-3.917 MeV]	(D_Nd:20)
144Nd60 + 10 D* --> 144Nd60 + 20Ne10 + 138.399 MeV [-6.819 MeV]	(D_Nd:21)
145Nd60 + 2 D* --> 145Nd60 + 4He2 + 23.847 MeV [-2.664 MeV]	(D_Nd:22)

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145Nd60 + 3 D* --> 145Nd60 + 6Li3 + 25.320 MeV [-14.918 MeV]	(D_Nd:23)
145Nd60 + 5 D* --> 145Nd60 + 10B5 + 53.628 MeV [-14.999 MeV]	(D_Nd:24)
145Nd60 + 6 D* --> 145Nd60 + 12C6 + 78.814 MeV [-4.468 MeV]	(D_Nd:25)
145Nd60 + 7 D* --> 145Nd60 + 14N7 + 89.087 MeV [-9.155 MeV]	(D_Nd:26)
145Nd60 + 8 D* --> 145Nd60 + 16O8 + 109.823 MeV [-3.681 MeV]	(D_Nd:27)
145Nd60 + 10 D* --> 145Nd60 + 20Ne10 + 138.399 MeV [-6.525 MeV]	(D_Nd:28)
146Nd60 + 2 D* --> 146Nd60 + 4He2 + 23.847 MeV [-2.605 MeV]	(D_Nd:29)
146Nd60 + 3 D* --> 146Nd60 + 6Li3 + 25.320 MeV [-14.830 MeV]	(D_Nd:30)
146Nd60 + 5 D* --> 146Nd60 + 10B5 + 53.628 MeV [-14.852 MeV]	(D_Nd:31)
146Nd60 + 6 D* --> 146Nd60 + 12C6 + 78.814 MeV [-4.291 MeV]	(D_Nd:32)
146Nd60 + 7 D* --> 146Nd60 + 14N7 + 89.087 MeV [-8.950 MeV]	(D_Nd:33)
146Nd60 + 8 D* --> 146Nd60 + 16O8 + 109.823 MeV [-3.447 MeV]	(D_Nd:34)
146Nd60 + 10 D* --> 146Nd60 + 20Ne10 + 138.399 MeV [-6.233 MeV]	(D_Nd:35)
148Nd60 + 2 D* --> 148Nd60 + 4He2 + 23.847 MeV [-2.488 MeV]	(D_Nd:36)
148Nd60 + 3 D* --> 148Nd60 + 6Li3 + 25.320 MeV [-14.655 MeV]	(D_Nd:37)
148Nd60 + 5 D* --> 148Nd60 + 10B5 + 53.628 MeV [-14.562 MeV]	(D_Nd:38)
148Nd60 + 6 D* --> 148Nd60 + 12C6 + 78.814 MeV [-3.944 MeV]	(D_Nd:39)
148Nd60 + 7 D* --> 148Nd60 + 14N7 + 89.087 MeV [-8.545 MeV]	(D_Nd:40)
148Nd60 + 8 D* --> 148Nd60 + 16O8 + 109.823 MeV [-2.984 MeV]	(D_Nd:41)
148Nd60 + 10 D* --> 148Nd60 + 20Ne10 + 138.399 MeV [-5.657 MeV]	(D_Nd:42)
150Nd60 + 2 D* --> 150Nd60 + 4He2 + 23.847 MeV [-2.374 MeV]	(D_Nd:43)
150Nd60 + 3 D* --> 150Nd60 + 6Li3 + 25.320 MeV [-14.483 MeV]	(D_Nd:44)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
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150Nd60 + 5 D* --> 150Nd60 + 10B5 + 53.628 MeV [-14.276 MeV]	(D_Nd:45)
150Nd60 + 6 D* --> 150Nd60 + 12C6 + 78.814 MeV [-3.602 MeV]	(D_Nd:46)
150Nd60 + 7 D* --> 150Nd60 + 14N7 + 89.087 MeV [-8.146 MeV]	(D_Nd:47)
150Nd60 + 8 D* --> 150Nd60 + 16O8 + 109.823 MeV [-2.529 MeV]	(D_Nd:48)
150Nd60 + 10 D* --> 150Nd60 + 20Ne10 + 138.399 MeV [-5.090 MeV]	(D_Nd:49)
----- Equations follow for Samarium, Sm, element 62 -----	
144Sm62 + 2 D* --> 144Sm62 + 4He2 + 23.847 MeV [-3.595 MeV]	(D_Sm:1)
144Sm62 + 3 D* --> 144Sm62 + 6Li3 + 25.320 MeV [-16.308 MeV]	(D_Sm:2)
144Sm62 + 5 D* --> 144Sm62 + 10B5 + 53.628 MeV [-17.296 MeV]	(D_Sm:3)
144Sm62 + 6 D* --> 144Sm62 + 12C6 + 78.814 MeV [-7.213 MeV]	(D_Sm:4)
144Sm62 + 7 D* --> 144Sm62 + 14N7 + 89.087 MeV [-12.345 MeV]	(D_Sm:5)
144Sm62 + 8 D* --> 144Sm62 + 16O8 + 109.823 MeV [-7.312 MeV]	(D_Sm:6)
144Sm62 + 10 D* --> 144Sm62 + 20Ne10 + 138.399 MeV [-11.028 MeV]	(D_Sm:7)
147Sm62 + 2 D* --> 147Sm62 + 4He2 + 23.847 MeV [-3.412 MeV]	(D_Sm:8)
147Sm62 + 3 D* --> 147Sm62 + 6Li3 + 25.320 MeV [-16.034 MeV]	(D_Sm:9)
147Sm62 + 5 D* --> 147Sm62 + 10B5 + 53.628 MeV [-16.841 MeV]	(D_Sm:10)
147Sm62 + 6 D* --> 147Sm62 + 12C6 + 78.814 MeV [-6.669 MeV]	(D_Sm:11)
147Sm62 + 7 D* --> 147Sm62 + 14N7 + 89.087 MeV [-11.711 MeV]	(D_Sm:12)
147Sm62 + 8 D* --> 147Sm62 + 16O8 + 109.823 MeV [-6.589 MeV]	(D_Sm:13)
147Sm62 + 10 D* --> 147Sm62 + 20Ne10 + 138.399 MeV [-10.128 MeV]	(D_Sm:14)
148Sm62 + 2 D* --> 148Sm62 + 4He2 + 23.847 MeV [-3.352 MeV]	(D_Sm:15)
148Sm62 + 3 D* --> 148Sm62 + 6Li3 + 25.320 MeV [-15.944 MeV]	(D_Sm:16)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
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148Sm62 + 5 D\* --> 148Sm62 + 10B5 + 53.628 MeV [-16.692 MeV] (D\_Sm:17)

148Sm62 + 6 D\* --> 148Sm62 + 12C6 + 78.814 MeV [-6.490 MeV] (D\_Sm:18)

148Sm62 + 7 D\* --> 148Sm62 + 14N7 + 89.087 MeV [-11.503 MeV] (D\_Sm:19)

148Sm62 + 8 D\* --> 148Sm62 + 16O8 + 109.823 MeV [-6.352 MeV] (D\_Sm:20)

148Sm62 + 10 D\* --> 148Sm62 + 20Ne10 + 138.399 MeV [-9.833 MeV] (D\_Sm:21)

149Sm62 + 2 D\* --> 149Sm62 + 4He2 + 23.847 MeV [-3.292 MeV] (D\_Sm:22)

149Sm62 + 3 D\* --> 149Sm62 + 6Li3 + 25.320 MeV [-15.856 MeV] (D\_Sm:23)

149Sm62 + 5 D\* --> 149Sm62 + 10B5 + 53.628 MeV [-16.545 MeV] (D\_Sm:24)

149Sm62 + 6 D\* --> 149Sm62 + 12C6 + 78.814 MeV [-6.313 MeV] (D\_Sm:25)

149Sm62 + 7 D\* --> 149Sm62 + 14N7 + 89.087 MeV [-11.297 MeV] (D\_Sm:26)

149Sm62 + 8 D\* --> 149Sm62 + 16O8 + 109.823 MeV [-6.116 MeV] (D\_Sm:27)

149Sm62 + 10 D\* --> 149Sm62 + 20Ne10 + 138.399 MeV [-9.540 MeV] (D\_Sm:28)

150Sm62 + 2 D\* --> 150Sm62 + 4He2 + 23.847 MeV [-3.234 MeV] (D\_Sm:29)

150Sm62 + 3 D\* --> 150Sm62 + 6Li3 + 25.320 MeV [-15.767 MeV] (D\_Sm:30)

150Sm62 + 5 D\* --> 150Sm62 + 10B5 + 53.628 MeV [-16.398 MeV] (D\_Sm:31)

150Sm62 + 6 D\* --> 150Sm62 + 12C6 + 78.814 MeV [-6.138 MeV] (D\_Sm:32)

150Sm62 + 7 D\* --> 150Sm62 + 14N7 + 89.087 MeV [-11.093 MeV] (D\_Sm:33)

150Sm62 + 8 D\* --> 150Sm62 + 16O8 + 109.823 MeV [-5.883 MeV] (D\_Sm:34)

150Sm62 + 10 D\* --> 150Sm62 + 20Ne10 + 138.399 MeV [-9.249 MeV] (D\_Sm:35)

152Sm62 + 2 D\* --> 152Sm62 + 4He2 + 23.847 MeV [-3.117 MeV] (D\_Sm:36)

152Sm62 + 3 D\* --> 152Sm62 + 6Li3 + 25.320 MeV [-15.593 MeV] (D\_Sm:37)

152Sm62 + 5 D\* --> 152Sm62 + 10B5 + 53.628 MeV [-16.109 MeV] (D\_Sm:38)

152Sm62 + 6 D\* --> 152Sm62 + 12C6 + 78.814 MeV [-5.791 MeV] (D\_Sm:39)

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152Sm62 + 7 D\* --> 152Sm62 + 14N7 + 89.087 MeV [-10.689 MeV] (D\_Sm:40)

152Sm62 + 8 D\* --> 152Sm62 + 16O8 + 109.823 MeV [-5.422 MeV] (D\_Sm:41)

152Sm62 + 10 D\* --> 152Sm62 + 20Ne10 + 138.399 MeV [-8.674 MeV] (D\_Sm:42)

154Sm62 + 2 D\* --> 154Sm62 + 4He2 + 23.847 MeV [-3.003 MeV] (D\_Sm:43)

154Sm62 + 3 D\* --> 154Sm62 + 6Li3 + 25.320 MeV [-15.422 MeV] (D\_Sm:44)

154Sm62 + 5 D\* --> 154Sm62 + 10B5 + 53.628 MeV [-15.824 MeV] (D\_Sm:45)

154Sm62 + 6 D\* --> 154Sm62 + 12C6 + 78.814 MeV [-5.450 MeV] (D\_Sm:46)

154Sm62 + 7 D\* --> 154Sm62 + 14N7 + 89.087 MeV [-10.291 MeV] (D\_Sm:47)

154Sm62 + 8 D\* --> 154Sm62 + 16O8 + 109.823 MeV [-4.968 MeV] (D\_Sm:48)

154Sm62 + 10 D\* --> 154Sm62 + 20Ne10 + 138.399 MeV [-8.109 MeV] (D\_Sm:49)

----- Equations follow for Europium, Eu, element 63 -----

151Eu63 + 2 D\* --> 151Eu63 + 4He2 + 23.847 MeV [-3.604 MeV] (D\_Eu:1)

151Eu63 + 3 D\* --> 151Eu63 + 6Li3 + 25.320 MeV [-16.321 MeV] (D\_Eu:2)

151Eu63 + 5 D\* --> 151Eu63 + 10B5 + 53.628 MeV [-17.312 MeV] (D\_Eu:3)

151Eu63 + 6 D\* --> 151Eu63 + 12C6 + 78.814 MeV [-7.229 MeV] (D\_Eu:4)

151Eu63 + 7 D\* --> 151Eu63 + 14N7 + 89.087 MeV [-12.360 MeV] (D\_Eu:5)

151Eu63 + 8 D\* --> 151Eu63 + 16O8 + 109.823 MeV [-7.325 MeV] (D\_Eu:6)

151Eu63 + 10 D\* --> 151Eu63 + 20Ne10 + 138.399 MeV [-11.036 MeV] (D\_Eu:7)

153Eu63 + 2 D\* --> 153Eu63 + 4He2 + 23.847 MeV [-3.487 MeV] (D\_Eu:8)

153Eu63 + 3 D\* --> 153Eu63 + 6Li3 + 25.320 MeV [-16.145 MeV] (D\_Eu:9)

153Eu63 + 5 D\* --> 153Eu63 + 10B5 + 53.628 MeV [-17.020 MeV] (D\_Eu:10)

153Eu63 + 6 D\* --> 153Eu63 + 12C6 + 78.814 MeV [-6.880 MeV] (D\_Eu:11)

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153Eu63 + 7 D\* --> 153Eu63 + 14N7 + 89.087 MeV [-11.954 MeV] (D\_Eu:12)

153Eu63 + 8 D\* --> 153Eu63 + 16O8 + 109.823 MeV [-6.861 MeV] (D\_Eu:13)

153Eu63 + 10 D\* --> 153Eu63 + 20Ne10 + 138.399 MeV [-10.458 MeV] (D\_Eu:14)

----- Equations follow for Gadolinium, Gd, element 64 -----

152Gd64 + 2 D\* --> 152Gd64 + 4He2 + 23.847 MeV [-3.973 MeV] (D\_Gd:1)

152Gd64 + 3 D\* --> 152Gd64 + 6Li3 + 25.320 MeV [-16.872 MeV] (D\_Gd:2)

152Gd64 + 5 D\* --> 152Gd64 + 10B5 + 53.628 MeV [-18.222 MeV] (D\_Gd:3)

152Gd64 + 6 D\* --> 152Gd64 + 12C6 + 78.814 MeV [-8.316 MeV] (D\_Gd:4)

152Gd64 + 7 D\* --> 152Gd64 + 14N7 + 89.087 MeV [-13.623 MeV] (D\_Gd:5)

152Gd64 + 8 D\* --> 152Gd64 + 16O8 + 109.823 MeV [-8.763 MeV] (D\_Gd:6)

152Gd64 + 10 D\* --> 152Gd64 + 20Ne10 + 138.399 MeV [-12.817 MeV] (D\_Gd:7)

154Gd64 + 2 D\* --> 154Gd64 + 4He2 + 23.847 MeV [-3.855 MeV] (D\_Gd:8)

154Gd64 + 3 D\* --> 154Gd64 + 6Li3 + 25.320 MeV [-16.695 MeV] (D\_Gd:9)

154Gd64 + 5 D\* --> 154Gd64 + 10B5 + 53.628 MeV [-17.929 MeV] (D\_Gd:10)

154Gd64 + 6 D\* --> 154Gd64 + 12C6 + 78.814 MeV [-7.965 MeV] (D\_Gd:11)

154Gd64 + 7 D\* --> 154Gd64 + 14N7 + 89.087 MeV [-13.214 MeV] (D\_Gd:12)

154Gd64 + 8 D\* --> 154Gd64 + 16O8 + 109.823 MeV [-8.296 MeV] (D\_Gd:13)

154Gd64 + 10 D\* --> 154Gd64 + 20Ne10 + 138.399 MeV [-12.236 MeV] (D\_Gd:14)

155Gd64 + 2 D\* --> 155Gd64 + 4He2 + 23.847 MeV [-3.797 MeV] (D\_Gd:15)

155Gd64 + 3 D\* --> 155Gd64 + 6Li3 + 25.320 MeV [-16.608 MeV] (D\_Gd:16)

155Gd64 + 5 D\* --> 155Gd64 + 10B5 + 53.628 MeV [-17.784 MeV] (D\_Gd:17)

155Gd64 + 6 D\* --> 155Gd64 + 12C6 + 78.814 MeV [-7.792 MeV] (D\_Gd:18)

155Gd64 + 7 D\* --> 155Gd64 + 14N7 + 89.087 MeV [-13.012 MeV] (D\_Gd:19)

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155Gd64 + 8 D* --> 155Gd64 + 16O8 + 109.823 MeV [-8.065 MeV]	(D_Gd:20)
155Gd64 + 10 D* --> 155Gd64 + 20Ne10 + 138.399 MeV [-11.948 MeV]	(D_Gd:21)
156Gd64 + 2 D* --> 156Gd64 + 4He2 + 23.847 MeV [-3.739 MeV]	(D_Gd:22)
156Gd64 + 3 D* --> 156Gd64 + 6Li3 + 25.320 MeV [-16.522 MeV]	(D_Gd:23)
156Gd64 + 5 D* --> 156Gd64 + 10B5 + 53.628 MeV [-17.640 MeV]	(D_Gd:24)
156Gd64 + 6 D* --> 156Gd64 + 12C6 + 78.814 MeV [-7.619 MeV]	(D_Gd:25)
156Gd64 + 7 D* --> 156Gd64 + 14N7 + 89.087 MeV [-12.811 MeV]	(D_Gd:26)
156Gd64 + 8 D* --> 156Gd64 + 16O8 + 109.823 MeV [-7.836 MeV]	(D_Gd:27)
156Gd64 + 10 D* --> 156Gd64 + 20Ne10 + 138.399 MeV [-11.663 MeV]	(D_Gd:28)
157Gd64 + 2 D* --> 157Gd64 + 4He2 + 23.847 MeV [-3.682 MeV]	(D_Gd:29)
157Gd64 + 3 D* --> 157Gd64 + 6Li3 + 25.320 MeV [-16.436 MeV]	(D_Gd:30)
157Gd64 + 5 D* --> 157Gd64 + 10B5 + 53.628 MeV [-17.498 MeV]	(D_Gd:31)
157Gd64 + 6 D* --> 157Gd64 + 12C6 + 78.814 MeV [-7.449 MeV]	(D_Gd:32)
157Gd64 + 7 D* --> 157Gd64 + 14N7 + 89.087 MeV [-12.612 MeV]	(D_Gd:33)
157Gd64 + 8 D* --> 157Gd64 + 16O8 + 109.823 MeV [-7.609 MeV]	(D_Gd:34)
157Gd64 + 10 D* --> 157Gd64 + 20Ne10 + 138.399 MeV [-11.380 MeV]	(D_Gd:35)
158Gd64 + 2 D* --> 158Gd64 + 4He2 + 23.847 MeV [-3.626 MeV]	(D_Gd:36)
158Gd64 + 3 D* --> 158Gd64 + 6Li3 + 25.320 MeV [-16.351 MeV]	(D_Gd:37)
158Gd64 + 5 D* --> 158Gd64 + 10B5 + 53.628 MeV [-17.356 MeV]	(D_Gd:38)
158Gd64 + 6 D* --> 158Gd64 + 12C6 + 78.814 MeV [-7.279 MeV]	(D_Gd:39)
158Gd64 + 7 D* --> 158Gd64 + 14N7 + 89.087 MeV [-12.415 MeV]	(D_Gd:40)
158Gd64 + 8 D* --> 158Gd64 + 16O8 + 109.823 MeV [-7.384 MeV]	(D_Gd:41)

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158Gd64 + 10 D\* --> 158Gd64 + 20Ne10 + 138.399 MeV [-11.099 MeV] (D\_Gd:42)

160Gd64 + 2 D\* --> 160Gd64 + 4He2 + 23.847 MeV [-3.513 MeV] (D\_Gd:43)

160Gd64 + 3 D\* --> 160Gd64 + 6Li3 + 25.320 MeV [-16.183 MeV] (D\_Gd:44)

160Gd64 + 5 D\* --> 160Gd64 + 10B5 + 53.628 MeV [-17.077 MeV] (D\_Gd:45)

160Gd64 + 6 D\* --> 160Gd64 + 12C6 + 78.814 MeV [-6.944 MeV] (D\_Gd:46)

160Gd64 + 7 D\* --> 160Gd64 + 14N7 + 89.087 MeV [-12.024 MeV] (D\_Gd:47)

160Gd64 + 8 D\* --> 160Gd64 + 16O8 + 109.823 MeV [-6.938 MeV] (D\_Gd:48)

160Gd64 + 10 D\* --> 160Gd64 + 20Ne10 + 138.399 MeV [-10.543 MeV] (D\_Gd:49)

----- Equations follow for Terbium, Tb, element 65 -----

159Tb65 + 2 D\* --> 159Tb65 + 4He2 + 23.847 MeV [-3.991 MeV] (D\_Tb:1)

159Tb65 + 3 D\* --> 159Tb65 + 6Li3 + 25.320 MeV [-16.897 MeV] (D\_Tb:2)

159Tb65 + 5 D\* --> 159Tb65 + 10B5 + 53.628 MeV [-18.258 MeV] (D\_Tb:3)

159Tb65 + 6 D\* --> 159Tb65 + 12C6 + 78.814 MeV [-8.356 MeV] (D\_Tb:4)

159Tb65 + 7 D\* --> 159Tb65 + 14N7 + 89.087 MeV [-13.666 MeV] (D\_Tb:5)

159Tb65 + 8 D\* --> 159Tb65 + 16O8 + 109.823 MeV [-8.808 MeV] (D\_Tb:6)

159Tb65 + 10 D\* --> 159Tb65 + 20Ne10 + 138.399 MeV [-12.864 MeV] (D\_Tb:7)

----- Equations follow for Dysprosium, Dy, element 66 -----

156Dy66 + 2 D\* --> 156Dy66 + 4He2 + 23.847 MeV [-4.588 MeV] (D\_Dy:1)

156Dy66 + 3 D\* --> 156Dy66 + 6Li3 + 25.320 MeV [-17.790 MeV] (D\_Dy:2)

156Dy66 + 5 D\* --> 156Dy66 + 10B5 + 53.628 MeV [-19.736 MeV] (D\_Dy:3)

156Dy66 + 6 D\* --> 156Dy66 + 12C6 + 78.814 MeV [-10.125 MeV] (D\_Dy:4)

156Dy66 + 7 D\* --> 156Dy66 + 14N7 + 89.087 MeV [-15.723 MeV] (D\_Dy:5)

156Dy66 + 8 D\* --> 156Dy66 + 16O8 + 109.823 MeV [-11.150 MeV] (D\_Dy:6)

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156Dy66 + 10 D* --> 156Dy66 + 20Ne10 + 138.399 MeV [-15.774 MeV]	(D_Dy:7)
158Dy66 + 2 D* --> 158Dy66 + 4He2 + 23.847 MeV [-4.471 MeV]	(D_Dy:8)
158Dy66 + 3 D* --> 158Dy66 + 6Li3 + 25.320 MeV [-17.614 MeV]	(D_Dy:9)
158Dy66 + 5 D* --> 158Dy66 + 10B5 + 53.628 MeV [-19.444 MeV]	(D_Dy:10)
158Dy66 + 6 D* --> 158Dy66 + 12C6 + 78.814 MeV [-9.775 MeV]	(D_Dy:11)
158Dy66 + 7 D* --> 158Dy66 + 14N7 + 89.087 MeV [-15.315 MeV]	(D_Dy:12)
158Dy66 + 8 D* --> 158Dy66 + 16O8 + 109.823 MeV [-10.685 MeV]	(D_Dy:13)
158Dy66 + 10 D* --> 158Dy66 + 20Ne10 + 138.399 MeV [-15.195 MeV]	(D_Dy:14)
160Dy66 + 2 D* --> 160Dy66 + 4He2 + 23.847 MeV [-4.355 MeV]	(D_Dy:15)
160Dy66 + 3 D* --> 160Dy66 + 6Li3 + 25.320 MeV [-17.441 MeV]	(D_Dy:16)
160Dy66 + 5 D* --> 160Dy66 + 10B5 + 53.628 MeV [-19.156 MeV]	(D_Dy:17)
160Dy66 + 6 D* --> 160Dy66 + 12C6 + 78.814 MeV [-9.430 MeV]	(D_Dy:18)
160Dy66 + 7 D* --> 160Dy66 + 14N7 + 89.087 MeV [-14.913 MeV]	(D_Dy:19)
160Dy66 + 8 D* --> 160Dy66 + 16O8 + 109.823 MeV [-10.227 MeV]	(D_Dy:20)
160Dy66 + 10 D* --> 160Dy66 + 20Ne10 + 138.399 MeV [-14.624 MeV]	(D_Dy:21)
161Dy66 + 2 D* --> 161Dy66 + 4He2 + 23.847 MeV [-4.298 MeV]	(D_Dy:22)
161Dy66 + 3 D* --> 161Dy66 + 6Li3 + 25.320 MeV [-17.355 MeV]	(D_Dy:23)
161Dy66 + 5 D* --> 161Dy66 + 10B5 + 53.628 MeV [-19.014 MeV]	(D_Dy:24)
161Dy66 + 6 D* --> 161Dy66 + 12C6 + 78.814 MeV [-9.259 MeV]	(D_Dy:25)
161Dy66 + 7 D* --> 161Dy66 + 14N7 + 89.087 MeV [-14.715 MeV]	(D_Dy:26)
161Dy66 + 8 D* --> 161Dy66 + 16O8 + 109.823 MeV [-10.000 MeV]	(D_Dy:27)
161Dy66 + 10 D* --> 161Dy66 + 20Ne10 + 138.399 MeV [-14.341 MeV]	(D_Dy:28)

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162Dy66 + 2 D\* --> 162Dy66 + 4He2 + 23.847 MeV [-4.241 MeV] (D\_Dy:29)

162Dy66 + 3 D\* --> 162Dy66 + 6Li3 + 25.320 MeV [-17.270 MeV] (D\_Dy:30)

162Dy66 + 5 D\* --> 162Dy66 + 10B5 + 53.628 MeV [-18.873 MeV] (D\_Dy:31)

162Dy66 + 6 D\* --> 162Dy66 + 12C6 + 78.814 MeV [-9.090 MeV] (D\_Dy:32)

162Dy66 + 7 D\* --> 162Dy66 + 14N7 + 89.087 MeV [-14.518 MeV] (D\_Dy:33)

162Dy66 + 8 D\* --> 162Dy66 + 16O8 + 109.823 MeV [-9.776 MeV] (D\_Dy:34)

162Dy66 + 10 D\* --> 162Dy66 + 20Ne10 + 138.399 MeV [-14.061 MeV] (D\_Dy:35)

163Dy66 + 2 D\* --> 163Dy66 + 4He2 + 23.847 MeV [-4.185 MeV] (D\_Dy:36)

163Dy66 + 3 D\* --> 163Dy66 + 6Li3 + 25.320 MeV [-17.186 MeV] (D\_Dy:37)

163Dy66 + 5 D\* --> 163Dy66 + 10B5 + 53.628 MeV [-18.733 MeV] (D\_Dy:38)

163Dy66 + 6 D\* --> 163Dy66 + 12C6 + 78.814 MeV [-8.923 MeV] (D\_Dy:39)

163Dy66 + 7 D\* --> 163Dy66 + 14N7 + 89.087 MeV [-14.322 MeV] (D\_Dy:40)

163Dy66 + 8 D\* --> 163Dy66 + 16O8 + 109.823 MeV [-9.552 MeV] (D\_Dy:41)

163Dy66 + 10 D\* --> 163Dy66 + 20Ne10 + 138.399 MeV [-13.783 MeV] (D\_Dy:42)

164Dy66 + 2 D\* --> 164Dy66 + 4He2 + 23.847 MeV [-4.130 MeV] (D\_Dy:43)

164Dy66 + 3 D\* --> 164Dy66 + 6Li3 + 25.320 MeV [-17.102 MeV] (D\_Dy:44)

164Dy66 + 5 D\* --> 164Dy66 + 10B5 + 53.628 MeV [-18.594 MeV] (D\_Dy:45)

164Dy66 + 6 D\* --> 164Dy66 + 12C6 + 78.814 MeV [-8.756 MeV] (D\_Dy:46)

164Dy66 + 7 D\* --> 164Dy66 + 14N7 + 89.087 MeV [-14.128 MeV] (D\_Dy:47)

164Dy66 + 8 D\* --> 164Dy66 + 16O8 + 109.823 MeV [-9.331 MeV] (D\_Dy:48)

164Dy66 + 10 D\* --> 164Dy66 + 20Ne10 + 138.399 MeV [-13.507 MeV] (D\_Dy:49)

----- Equations follow for Holmium, Ho, element 67 -----

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165Ho67 + 2 D* --> 165Ho67 + 4He2 + 23.847 MeV [-4.491 MeV]	(D_Ho:1)
165Ho67 + 3 D* --> 165Ho67 + 6Li3 + 25.320 MeV [-17.642 MeV]	(D_Ho:2)
165Ho67 + 5 D* --> 165Ho67 + 10B5 + 53.628 MeV [-19.486 MeV]	(D_Ho:3)
165Ho67 + 6 D* --> 165Ho67 + 12C6 + 78.814 MeV [-9.822 MeV]	(D_Ho:4)
165Ho67 + 7 D* --> 165Ho67 + 14N7 + 89.087 MeV [-15.367 MeV]	(D_Ho:5)
165Ho67 + 8 D* --> 165Ho67 + 16O8 + 109.823 MeV [-10.740 MeV]	(D_Ho:6)
165Ho67 + 10 D* --> 165Ho67 + 20Ne10 + 138.399 MeV [-15.254 MeV]	(D_Ho:7)
----- Equations follow for Erbium, Er, element 68 -----	
162Er68 + 2 D* --> 162Er68 + 4He2 + 23.847 MeV [-5.080 MeV]	(D_Er:1)
162Er68 + 3 D* --> 162Er68 + 6Li3 + 25.320 MeV [-18.523 MeV]	(D_Er:2)
162Er68 + 5 D* --> 162Er68 + 10B5 + 53.628 MeV [-20.945 MeV]	(D_Er:3)
162Er68 + 6 D* --> 162Er68 + 12C6 + 78.814 MeV [-11.567 MeV]	(D_Er:4)
162Er68 + 7 D* --> 162Er68 + 14N7 + 89.087 MeV [-17.396 MeV]	(D_Er:5)
162Er68 + 8 D* --> 162Er68 + 16O8 + 109.823 MeV [-13.052 MeV]	(D_Er:6)
162Er68 + 10 D* --> 162Er68 + 20Ne10 + 138.399 MeV [-18.127 MeV]	(D_Er:7)
164Er68 + 2 D* --> 164Er68 + 4He2 + 23.847 MeV [-4.965 MeV]	(D_Er:8)
164Er68 + 3 D* --> 164Er68 + 6Li3 + 25.320 MeV [-18.350 MeV]	(D_Er:9)
164Er68 + 5 D* --> 164Er68 + 10B5 + 53.628 MeV [-20.658 MeV]	(D_Er:10)
164Er68 + 6 D* --> 164Er68 + 12C6 + 78.814 MeV [-11.223 MeV]	(D_Er:11)
164Er68 + 7 D* --> 164Er68 + 14N7 + 89.087 MeV [-16.995 MeV]	(D_Er:12)
164Er68 + 8 D* --> 164Er68 + 16O8 + 109.823 MeV [-12.595 MeV]	(D_Er:13)
164Er68 + 10 D* --> 164Er68 + 20Ne10 + 138.399 MeV [-17.558 MeV]	(D_Er:14)

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166Er68 + 2 D* --> 166Er68 + 4He2 + 23.847 MeV [-4.851 MeV]	(D_Er:15)
166Er68 + 3 D* --> 166Er68 + 6Li3 + 25.320 MeV [-18.180 MeV]	(D_Er:16)
166Er68 + 5 D* --> 166Er68 + 10B5 + 53.628 MeV [-20.375 MeV]	(D_Er:17)
166Er68 + 6 D* --> 166Er68 + 12C6 + 78.814 MeV [-10.884 MeV]	(D_Er:18)
166Er68 + 7 D* --> 166Er68 + 14N7 + 89.087 MeV [-16.601 MeV]	(D_Er:19)
166Er68 + 8 D* --> 166Er68 + 16O8 + 109.823 MeV [-12.145 MeV]	(D_Er:20)
166Er68 + 10 D* --> 166Er68 + 20Ne10 + 138.399 MeV [-16.997 MeV]	(D_Er:21)
167Er68 + 2 D* --> 167Er68 + 4He2 + 23.847 MeV [-4.795 MeV]	(D_Er:22)
167Er68 + 3 D* --> 167Er68 + 6Li3 + 25.320 MeV [-18.096 MeV]	(D_Er:23)
167Er68 + 5 D* --> 167Er68 + 10B5 + 53.628 MeV [-20.236 MeV]	(D_Er:24)
167Er68 + 6 D* --> 167Er68 + 12C6 + 78.814 MeV [-10.717 MeV]	(D_Er:25)
167Er68 + 7 D* --> 167Er68 + 14N7 + 89.087 MeV [-16.406 MeV]	(D_Er:26)
167Er68 + 8 D* --> 167Er68 + 16O8 + 109.823 MeV [-11.923 MeV]	(D_Er:27)
167Er68 + 10 D* --> 167Er68 + 20Ne10 + 138.399 MeV [-16.719 MeV]	(D_Er:28)
168Er68 + 2 D* --> 168Er68 + 4He2 + 23.847 MeV [-4.740 MeV]	(D_Er:29)
168Er68 + 3 D* --> 168Er68 + 6Li3 + 25.320 MeV [-18.013 MeV]	(D_Er:30)
168Er68 + 5 D* --> 168Er68 + 10B5 + 53.628 MeV [-20.097 MeV]	(D_Er:31)
168Er68 + 6 D* --> 168Er68 + 12C6 + 78.814 MeV [-10.551 MeV]	(D_Er:32)
168Er68 + 7 D* --> 168Er68 + 14N7 + 89.087 MeV [-16.213 MeV]	(D_Er:33)
168Er68 + 8 D* --> 168Er68 + 16O8 + 109.823 MeV [-11.702 MeV]	(D_Er:34)
168Er68 + 10 D* --> 168Er68 + 20Ne10 + 138.399 MeV [-16.443 MeV]	(D_Er:35)
170Er68 + 2 D* --> 170Er68 + 4He2 + 23.847 MeV [-4.630 MeV]	(D_Er:36)
170Er68 + 3 D* --> 170Er68 + 6Li3 + 25.320 MeV [-17.848 MeV]	(D_Er:37)

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170Er68 + 5 D\* --> 170Er68 + 10B5 + 53.628 MeV [-19.823 MeV] (D\_Er:38)

170Er68 + 6 D\* --> 170Er68 + 12C6 + 78.814 MeV [-10.222 MeV] (D\_Er:39)

170Er68 + 7 D\* --> 170Er68 + 14N7 + 89.087 MeV [-15.830 MeV] (D\_Er:40)

170Er68 + 8 D\* --> 170Er68 + 16O8 + 109.823 MeV [-11.265 MeV] (D\_Er:41)

170Er68 + 10 D\* --> 170Er68 + 20Ne10 + 138.399 MeV [-15.898 MeV] (D\_Er:42)

----- Equations follow for Thulium, Tm, element 69 -----

169Tm69 + 2 D\* --> 169Tm69 + 4He2 + 23.847 MeV [-5.098 MeV] (D\_Tm:1)

169Tm69 + 3 D\* --> 169Tm69 + 6Li3 + 25.320 MeV [-18.548 MeV] (D\_Tm:2)

169Tm69 + 5 D\* --> 169Tm69 + 10B5 + 53.628 MeV [-20.982 MeV] (D\_Tm:3)

169Tm69 + 6 D\* --> 169Tm69 + 12C6 + 78.814 MeV [-11.608 MeV] (D\_Tm:4)

169Tm69 + 7 D\* --> 169Tm69 + 14N7 + 89.087 MeV [-17.441 MeV] (D\_Tm:5)

169Tm69 + 8 D\* --> 169Tm69 + 16O8 + 109.823 MeV [-13.100 MeV] (D\_Tm:6)

169Tm69 + 10 D\* --> 169Tm69 + 20Ne10 + 138.399 MeV [-18.177 MeV] (D\_Tm:7)

----- Equations follow for Ytterbium, Yb, element 70 -----

168Yb70 + 2 D\* --> 168Yb70 + 4He2 + 23.847 MeV [-5.568 MeV] (D\_Yb:1)

168Yb70 + 3 D\* --> 168Yb70 + 6Li3 + 25.320 MeV [-19.251 MeV] (D\_Yb:2)

168Yb70 + 5 D\* --> 168Yb70 + 10B5 + 53.628 MeV [-22.145 MeV] (D\_Yb:3)

168Yb70 + 6 D\* --> 168Yb70 + 12C6 + 78.814 MeV [-12.999 MeV] (D\_Yb:4)

168Yb70 + 7 D\* --> 168Yb70 + 14N7 + 89.087 MeV [-19.058 MeV] (D\_Yb:5)

168Yb70 + 8 D\* --> 168Yb70 + 16O8 + 109.823 MeV [-14.943 MeV] (D\_Yb:6)

168Yb70 + 10 D\* --> 168Yb70 + 20Ne10 + 138.399 MeV [-20.465 MeV] (D\_Yb:7)

170Yb70 + 2 D\* --> 170Yb70 + 4He2 + 23.847 MeV [-5.455 MeV] (D\_Yb:8)

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170Yb70 + 3 D* --> 170Yb70 + 6Li3 + 25.320 MeV [-19.082 MeV]	(D_Yb:9)
170Yb70 + 5 D* --> 170Yb70 + 10B5 + 53.628 MeV [-21.863 MeV]	(D_Yb:10)
170Yb70 + 6 D* --> 170Yb70 + 12C6 + 78.814 MeV [-12.662 MeV]	(D_Yb:11)
170Yb70 + 7 D* --> 170Yb70 + 14N7 + 89.087 MeV [-18.665 MeV]	(D_Yb:12)
170Yb70 + 8 D* --> 170Yb70 + 16O8 + 109.823 MeV [-14.494 MeV]	(D_Yb:13)
170Yb70 + 10 D* --> 170Yb70 + 20Ne10 + 138.399 MeV [-19.906 MeV]	(D_Yb:14)
171Yb70 + 2 D* --> 171Yb70 + 4He2 + 23.847 MeV [-5.399 MeV]	(D_Yb:15)
171Yb70 + 3 D* --> 171Yb70 + 6Li3 + 25.320 MeV [-18.998 MeV]	(D_Yb:16)
171Yb70 + 5 D* --> 171Yb70 + 10B5 + 53.628 MeV [-21.724 MeV]	(D_Yb:17)
171Yb70 + 6 D* --> 171Yb70 + 12C6 + 78.814 MeV [-12.495 MeV]	(D_Yb:18)
171Yb70 + 7 D* --> 171Yb70 + 14N7 + 89.087 MeV [-18.471 MeV]	(D_Yb:19)
171Yb70 + 8 D* --> 171Yb70 + 16O8 + 109.823 MeV [-14.272 MeV]	(D_Yb:20)
171Yb70 + 10 D* --> 171Yb70 + 20Ne10 + 138.399 MeV [-19.629 MeV]	(D_Yb:21)
172Yb70 + 2 D* --> 172Yb70 + 4He2 + 23.847 MeV [-5.344 MeV]	(D_Yb:22)
172Yb70 + 3 D* --> 172Yb70 + 6Li3 + 25.320 MeV [-18.915 MeV]	(D_Yb:23)
172Yb70 + 5 D* --> 172Yb70 + 10B5 + 53.628 MeV [-21.586 MeV]	(D_Yb:24)
172Yb70 + 6 D* --> 172Yb70 + 12C6 + 78.814 MeV [-12.329 MeV]	(D_Yb:25)
172Yb70 + 7 D* --> 172Yb70 + 14N7 + 89.087 MeV [-18.278 MeV]	(D_Yb:26)
172Yb70 + 8 D* --> 172Yb70 + 16O8 + 109.823 MeV [-14.051 MeV]	(D_Yb:27)
172Yb70 + 10 D* --> 172Yb70 + 20Ne10 + 138.399 MeV [-19.354 MeV]	(D_Yb:28)
173Yb70 + 2 D* --> 173Yb70 + 4He2 + 23.847 MeV [-5.289 MeV]	(D_Yb:29)
173Yb70 + 3 D* --> 173Yb70 + 6Li3 + 25.320 MeV [-18.832 MeV]	(D_Yb:30)

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173Yb70 + 5 D\* --> 173Yb70 + 10B5 + 53.628 MeV [-21.449 MeV] (D\_Yb:31)

173Yb70 + 6 D\* --> 173Yb70 + 12C6 + 78.814 MeV [-12.165 MeV] (D\_Yb:32)

173Yb70 + 7 D\* --> 173Yb70 + 14N7 + 89.087 MeV [-18.086 MeV] (D\_Yb:33)

173Yb70 + 8 D\* --> 173Yb70 + 16O8 + 109.823 MeV [-13.832 MeV] (D\_Yb:34)

173Yb70 + 10 D\* --> 173Yb70 + 20Ne10 + 138.399 MeV [-19.081 MeV] (D\_Yb:35)

174Yb70 + 2 D\* --> 174Yb70 + 4He2 + 23.847 MeV [-5.234 MeV] (D\_Yb:36)

174Yb70 + 3 D\* --> 174Yb70 + 6Li3 + 25.320 MeV [-18.750 MeV] (D\_Yb:37)

174Yb70 + 5 D\* --> 174Yb70 + 10B5 + 53.628 MeV [-21.312 MeV] (D\_Yb:38)

174Yb70 + 6 D\* --> 174Yb70 + 12C6 + 78.814 MeV [-12.001 MeV] (D\_Yb:39)

174Yb70 + 7 D\* --> 174Yb70 + 14N7 + 89.087 MeV [-17.896 MeV] (D\_Yb:40)

174Yb70 + 8 D\* --> 174Yb70 + 16O8 + 109.823 MeV [-13.615 MeV] (D\_Yb:41)

174Yb70 + 10 D\* --> 174Yb70 + 20Ne10 + 138.399 MeV [-18.810 MeV] (D\_Yb:42)

176Yb70 + 2 D\* --> 176Yb70 + 4He2 + 23.847 MeV [-5.126 MeV] (D\_Yb:43)

176Yb70 + 3 D\* --> 176Yb70 + 6Li3 + 25.320 MeV [-18.588 MeV] (D\_Yb:44)

176Yb70 + 5 D\* --> 176Yb70 + 10B5 + 53.628 MeV [-21.043 MeV] (D\_Yb:45)

176Yb70 + 6 D\* --> 176Yb70 + 12C6 + 78.814 MeV [-11.678 MeV] (D\_Yb:46)

176Yb70 + 7 D\* --> 176Yb70 + 14N7 + 89.087 MeV [-17.519 MeV] (D\_Yb:47)

176Yb70 + 8 D\* --> 176Yb70 + 16O8 + 109.823 MeV [-13.185 MeV] (D\_Yb:48)

176Yb70 + 10 D\* --> 176Yb70 + 20Ne10 + 138.399 MeV [-18.274 MeV] (D\_Yb:49)

----- Equations follow for Lutetium, Lu, element 71 -----

175Lu71 + 2 D\* --> 175Lu71 + 4He2 + 23.847 MeV [-5.588 MeV] (D\_Lu:1)

175Lu71 + 3 D\* --> 175Lu71 + 6Li3 + 25.320 MeV [-19.280 MeV] (D\_Lu:2)

175Lu71 + 5 D\* --> 175Lu71 + 10B5 + 53.628 MeV [-22.188 MeV] (D\_Lu:3)

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175Lu71 + 6 D\* --> 175Lu71 + 12C6 + 78.814 MeV [-13.048 MeV] (D\_Lu:4)

175Lu71 + 7 D\* --> 175Lu71 + 14N7 + 89.087 MeV [-19.112 MeV] (D\_Lu:5)

175Lu71 + 8 D\* --> 175Lu71 + 16O8 + 109.823 MeV [-15.000 MeV] (D\_Lu:6)

175Lu71 + 10 D\* --> 175Lu71 + 20Ne10 + 138.399 MeV [-20.528 MeV] (D\_Lu:7)

176Lu71 + 2 D\* --> 176Lu71 + 4He2 + 23.847 MeV [-5.534 MeV] (D\_Lu:8)

176Lu71 + 3 D\* --> 176Lu71 + 6Li3 + 25.320 MeV [-19.198 MeV] (D\_Lu:9)

176Lu71 + 5 D\* --> 176Lu71 + 10B5 + 53.628 MeV [-22.052 MeV] (D\_Lu:10)

176Lu71 + 6 D\* --> 176Lu71 + 12C6 + 78.814 MeV [-12.885 MeV] (D\_Lu:11)

176Lu71 + 7 D\* --> 176Lu71 + 14N7 + 89.087 MeV [-18.922 MeV] (D\_Lu:12)

176Lu71 + 8 D\* --> 176Lu71 + 16O8 + 109.823 MeV [-14.783 MeV] (D\_Lu:13)

176Lu71 + 10 D\* --> 176Lu71 + 20Ne10 + 138.399 MeV [-20.257 MeV] (D\_Lu:14)

----- Equations follow for Hafnium, Hf, element 72 -----

174Hf72 + 2 D\* --> 174Hf72 + 4He2 + 23.847 MeV [-6.053 MeV] (D\_Hf:1)

174Hf72 + 3 D\* --> 174Hf72 + 6Li3 + 25.320 MeV [-19.974 MeV] (D\_Hf:2)

174Hf72 + 5 D\* --> 174Hf72 + 10B5 + 53.628 MeV [-23.338 MeV] (D\_Hf:3)

174Hf72 + 6 D\* --> 174Hf72 + 12C6 + 78.814 MeV [-14.423 MeV] (D\_Hf:4)

174Hf72 + 7 D\* --> 174Hf72 + 14N7 + 89.087 MeV [-20.711 MeV] (D\_Hf:5)

174Hf72 + 8 D\* --> 174Hf72 + 16O8 + 109.823 MeV [-16.821 MeV] (D\_Hf:6)

174Hf72 + 10 D\* --> 174Hf72 + 20Ne10 + 138.399 MeV [-22.790 MeV] (D\_Hf:7)

176Hf72 + 2 D\* --> 176Hf72 + 4He2 + 23.847 MeV [-5.942 MeV] (D\_Hf:8)

176Hf72 + 3 D\* --> 176Hf72 + 6Li3 + 25.320 MeV [-19.808 MeV] (D\_Hf:9)

176Hf72 + 5 D\* --> 176Hf72 + 10B5 + 53.628 MeV [-23.061 MeV] (D\_Hf:10)

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176Hf72 + 6 D* --> 176Hf72 + 12C6 + 78.814 MeV [-14.091 MeV]	(D_Hf:11)
176Hf72 + 7 D* --> 176Hf72 + 14N7 + 89.087 MeV [-20.324 MeV]	(D_Hf:12)
176Hf72 + 8 D* --> 176Hf72 + 16O8 + 109.823 MeV [-16.380 MeV]	(D_Hf:13)
176Hf72 + 10 D* --> 176Hf72 + 20Ne10 + 138.399 MeV [-22.240 MeV]	(D_Hf:14)
177Hf72 + 2 D* --> 177Hf72 + 4He2 + 23.847 MeV [-5.887 MeV]	(D_Hf:15)
177Hf72 + 3 D* --> 177Hf72 + 6Li3 + 25.320 MeV [-19.726 MeV]	(D_Hf:16)
177Hf72 + 5 D* --> 177Hf72 + 10B5 + 53.628 MeV [-22.924 MeV]	(D_Hf:17)
177Hf72 + 6 D* --> 177Hf72 + 12C6 + 78.814 MeV [-13.927 MeV]	(D_Hf:18)
177Hf72 + 7 D* --> 177Hf72 + 14N7 + 89.087 MeV [-20.133 MeV]	(D_Hf:19)
177Hf72 + 8 D* --> 177Hf72 + 16O8 + 109.823 MeV [-16.162 MeV]	(D_Hf:20)
177Hf72 + 10 D* --> 177Hf72 + 20Ne10 + 138.399 MeV [-21.968 MeV]	(D_Hf:21)
178Hf72 + 2 D* --> 178Hf72 + 4He2 + 23.847 MeV [-5.832 MeV]	(D_Hf:22)
178Hf72 + 3 D* --> 178Hf72 + 6Li3 + 25.320 MeV [-19.644 MeV]	(D_Hf:23)
178Hf72 + 5 D* --> 178Hf72 + 10B5 + 53.628 MeV [-22.788 MeV]	(D_Hf:24)
178Hf72 + 6 D* --> 178Hf72 + 12C6 + 78.814 MeV [-13.764 MeV]	(D_Hf:25)
178Hf72 + 7 D* --> 178Hf72 + 14N7 + 89.087 MeV [-19.943 MeV]	(D_Hf:26)
178Hf72 + 8 D* --> 178Hf72 + 16O8 + 109.823 MeV [-15.945 MeV]	(D_Hf:27)
178Hf72 + 10 D* --> 178Hf72 + 20Ne10 + 138.399 MeV [-21.698 MeV]	(D_Hf:28)
179Hf72 + 2 D* --> 179Hf72 + 4He2 + 23.847 MeV [-5.778 MeV]	(D_Hf:29)
179Hf72 + 3 D* --> 179Hf72 + 6Li3 + 25.320 MeV [-19.563 MeV]	(D_Hf:30)
179Hf72 + 5 D* --> 179Hf72 + 10B5 + 53.628 MeV [-22.653 MeV]	(D_Hf:31)
179Hf72 + 6 D* --> 179Hf72 + 12C6 + 78.814 MeV [-13.602 MeV]	(D_Hf:32)
179Hf72 + 7 D* --> 179Hf72 + 14N7 + 89.087 MeV [-19.754 MeV]	(D_Hf:33)

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179Hf72 + 8 D\* --> 179Hf72 + 16O8 + 109.823 MeV [-15.730 MeV] (D\_Hf:34)

179Hf72 + 10 D\* --> 179Hf72 + 20Ne10 + 138.399 MeV [-21.429 MeV] (D\_Hf:35)

180Hf72 + 2 D\* --> 180Hf72 + 4He2 + 23.847 MeV [-5.724 MeV] (D\_Hf:36)

180Hf72 + 3 D\* --> 180Hf72 + 6Li3 + 25.320 MeV [-19.482 MeV] (D\_Hf:37)

180Hf72 + 5 D\* --> 180Hf72 + 10B5 + 53.628 MeV [-22.519 MeV] (D\_Hf:38)

180Hf72 + 6 D\* --> 180Hf72 + 12C6 + 78.814 MeV [-13.442 MeV] (D\_Hf:39)

180Hf72 + 7 D\* --> 180Hf72 + 14N7 + 89.087 MeV [-19.567 MeV] (D\_Hf:40)

180Hf72 + 8 D\* --> 180Hf72 + 16O8 + 109.823 MeV [-15.516 MeV] (D\_Hf:41)

180Hf72 + 10 D\* --> 180Hf72 + 20Ne10 + 138.399 MeV [-21.162 MeV] (D\_Hf:42)

----- Equations follow for Tantalum, Ta, element 73 -----

180Ta73 + 2 D\* --> 180Ta73 + 4He2 + 23.847 MeV [-6.130 MeV] (D\_Ta:1)

180Ta73 + 3 D\* --> 180Ta73 + 6Li3 + 25.320 MeV [-20.087 MeV] (D\_Ta:2)

180Ta73 + 5 D\* --> 180Ta73 + 10B5 + 53.628 MeV [-23.521 MeV] (D\_Ta:3)

180Ta73 + 6 D\* --> 180Ta73 + 12C6 + 78.814 MeV [-14.640 MeV] (D\_Ta:4)

180Ta73 + 7 D\* --> 180Ta73 + 14N7 + 89.087 MeV [-20.960 MeV] (D\_Ta:5)

180Ta73 + 8 D\* --> 180Ta73 + 16O8 + 109.823 MeV [-17.102 MeV] (D\_Ta:6)

180Ta73 + 10 D\* --> 180Ta73 + 20Ne10 + 138.399 MeV [-23.132 MeV] (D\_Ta:7)

181Ta73 + 2 D\* --> 181Ta73 + 4He2 + 23.847 MeV [-6.075 MeV] (D\_Ta:8)

181Ta73 + 3 D\* --> 181Ta73 + 6Li3 + 25.320 MeV [-20.006 MeV] (D\_Ta:9)

181Ta73 + 5 D\* --> 181Ta73 + 10B5 + 53.628 MeV [-23.386 MeV] (D\_Ta:10)

181Ta73 + 6 D\* --> 181Ta73 + 12C6 + 78.814 MeV [-14.478 MeV] (D\_Ta:11)

181Ta73 + 7 D\* --> 181Ta73 + 14N7 + 89.087 MeV [-20.772 MeV] (D\_Ta:12)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
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181Ta73 + 8 D\* --> 181Ta73 + 16O8 + 109.823 MeV [-16.887 MeV] (D\_Ta:13)

181Ta73 + 10 D\* --> 181Ta73 + 20Ne10 + 138.399 MeV [-22.864 MeV] (D\_Ta:14)

----- Equations follow for Tungsten, W, element 74 -----

180W74 + 2 D\* --> 180W74 + 4He2 + 23.847 MeV [-6.535 MeV] (D\_W:1)

180W74 + 3 D\* --> 180W74 + 6Li3 + 25.320 MeV [-20.693 MeV] (D\_W:2)

180W74 + 5 D\* --> 180W74 + 10B5 + 53.628 MeV [-24.523 MeV] (D\_W:3)

180W74 + 6 D\* --> 180W74 + 12C6 + 78.814 MeV [-15.838 MeV] (D\_W:4)

180W74 + 7 D\* --> 180W74 + 14N7 + 89.087 MeV [-22.353 MeV] (D\_W:5)

180W74 + 8 D\* --> 180W74 + 16O8 + 109.823 MeV [-18.689 MeV] (D\_W:6)

180W74 + 10 D\* --> 180W74 + 20Ne10 + 138.399 MeV [-25.102 MeV] (D\_W:7)

182W74 + 2 D\* --> 182W74 + 4He2 + 23.847 MeV [-6.425 MeV] (D\_W:8)

182W74 + 3 D\* --> 182W74 + 6Li3 + 25.320 MeV [-20.529 MeV] (D\_W:9)

182W74 + 5 D\* --> 182W74 + 10B5 + 53.628 MeV [-24.250 MeV] (D\_W:10)

182W74 + 6 D\* --> 182W74 + 12C6 + 78.814 MeV [-15.511 MeV] (D\_W:11)

182W74 + 7 D\* --> 182W74 + 14N7 + 89.087 MeV [-21.973 MeV] (D\_W:12)

182W74 + 8 D\* --> 182W74 + 16O8 + 109.823 MeV [-18.255 MeV] (D\_W:13)

182W74 + 10 D\* --> 182W74 + 20Ne10 + 138.399 MeV [-24.561 MeV] (D\_W:14)

183W74 + 2 D\* --> 183W74 + 4He2 + 23.847 MeV [-6.371 MeV] (D\_W:15)

183W74 + 3 D\* --> 183W74 + 6Li3 + 25.320 MeV [-20.448 MeV] (D\_W:16)

183W74 + 5 D\* --> 183W74 + 10B5 + 53.628 MeV [-24.116 MeV] (D\_W:17)

183W74 + 6 D\* --> 183W74 + 12C6 + 78.814 MeV [-15.350 MeV] (D\_W:18)

183W74 + 7 D\* --> 183W74 + 14N7 + 89.087 MeV [-21.784 MeV] (D\_W:19)

183W74 + 8 D\* --> 183W74 + 16O8 + 109.823 MeV [-18.040 MeV] (D\_W:20)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
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183W74 + 10 D\* --> 183W74 + 20Ne10 + 138.399 MeV [-24.292 MeV] (D\_W:21)

184W74 + 2 D\* --> 184W74 + 4He2 + 23.847 MeV [-6.318 MeV] (D\_W:22)

184W74 + 3 D\* --> 184W74 + 6Li3 + 25.320 MeV [-20.368 MeV] (D\_W:23)

184W74 + 5 D\* --> 184W74 + 10B5 + 53.628 MeV [-23.982 MeV] (D\_W:24)

184W74 + 6 D\* --> 184W74 + 12C6 + 78.814 MeV [-15.189 MeV] (D\_W:25)

184W74 + 7 D\* --> 184W74 + 14N7 + 89.087 MeV [-21.598 MeV] (D\_W:26)

184W74 + 8 D\* --> 184W74 + 16O8 + 109.823 MeV [-17.826 MeV] (D\_W:27)

184W74 + 10 D\* --> 184W74 + 20Ne10 + 138.399 MeV [-24.026 MeV] (D\_W:28)

186W74 + 2 D\* --> 186W74 + 4He2 + 23.847 MeV [-6.211 MeV] (D\_W:29)

186W74 + 3 D\* --> 186W74 + 6Li3 + 25.320 MeV [-20.209 MeV] (D\_W:30)

186W74 + 5 D\* --> 186W74 + 10B5 + 53.628 MeV [-23.717 MeV] (D\_W:31)

186W74 + 6 D\* --> 186W74 + 12C6 + 78.814 MeV [-14.872 MeV] (D\_W:32)

186W74 + 7 D\* --> 186W74 + 14N7 + 89.087 MeV [-21.227 MeV] (D\_W:33)

186W74 + 8 D\* --> 186W74 + 16O8 + 109.823 MeV [-17.404 MeV] (D\_W:34)

186W74 + 10 D\* --> 186W74 + 20Ne10 + 138.399 MeV [-23.499 MeV] (D\_W:35)

----- Equations follow for Rhenium, Re, element 75 -----

185Re75 + 2 D\* --> 185Re75 + 4He2 + 23.847 MeV [-6.666 MeV] (D\_Re:1)

185Re75 + 3 D\* --> 185Re75 + 6Li3 + 25.320 MeV [-20.888 MeV] (D\_Re:2)

185Re75 + 5 D\* --> 185Re75 + 10B5 + 53.628 MeV [-24.842 MeV] (D\_Re:3)

185Re75 + 6 D\* --> 185Re75 + 12C6 + 78.814 MeV [-16.218 MeV] (D\_Re:4)

185Re75 + 7 D\* --> 185Re75 + 14N7 + 89.087 MeV [-22.793 MeV] (D\_Re:5)

185Re75 + 8 D\* --> 185Re75 + 16O8 + 109.823 MeV [-19.187 MeV] (D\_Re:6)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
 Creating Stable Isotope Z Via Nuclear Catalytic Action

185Re75 + 10 D\* --> 185Re75 + 20Ne10 + 138.399 MeV [-25.715 MeV] (D\_Re:7)

187Re75 + 2 D\* --> 187Re75 + 4He2 + 23.847 MeV [-6.559 MeV] (D\_Re:8)

187Re75 + 3 D\* --> 187Re75 + 6Li3 + 25.320 MeV [-20.728 MeV] (D\_Re:9)

187Re75 + 5 D\* --> 187Re75 + 10B5 + 53.628 MeV [-24.576 MeV] (D\_Re:10)

187Re75 + 6 D\* --> 187Re75 + 12C6 + 78.814 MeV [-15.899 MeV] (D\_Re:11)

187Re75 + 7 D\* --> 187Re75 + 14N7 + 89.087 MeV [-22.421 MeV] (D\_Re:12)

187Re75 + 8 D\* --> 187Re75 + 16O8 + 109.823 MeV [-18.762 MeV] (D\_Re:13)

187Re75 + 10 D\* --> 187Re75 + 20Ne10 + 138.399 MeV [-25.185 MeV] (D\_Re:14)

----- Equations follow for Osmium, Os, element 76 -----

184Os76 + 2 D\* --> 184Os76 + 4He2 + 23.847 MeV [-7.122 MeV] (D\_Os:1)

184Os76 + 3 D\* --> 184Os76 + 6Li3 + 25.320 MeV [-21.570 MeV] (D\_Os:2)

184Os76 + 5 D\* --> 184Os76 + 10B5 + 53.628 MeV [-25.972 MeV] (D\_Os:3)

184Os76 + 6 D\* --> 184Os76 + 12C6 + 78.814 MeV [-17.569 MeV] (D\_Os:4)

184Os76 + 7 D\* --> 184Os76 + 14N7 + 89.087 MeV [-24.365 MeV] (D\_Os:5)

184Os76 + 8 D\* --> 184Os76 + 16O8 + 109.823 MeV [-20.978 MeV] (D\_Os:6)

184Os76 + 10 D\* --> 184Os76 + 20Ne10 + 138.399 MeV [-27.940 MeV] (D\_Os:7)

186Os76 + 2 D\* --> 186Os76 + 4He2 + 23.847 MeV [-7.013 MeV] (D\_Os:8)

186Os76 + 3 D\* --> 186Os76 + 6Li3 + 25.320 MeV [-21.407 MeV] (D\_Os:9)

186Os76 + 5 D\* --> 186Os76 + 10B5 + 53.628 MeV [-25.700 MeV] (D\_Os:10)

186Os76 + 6 D\* --> 186Os76 + 12C6 + 78.814 MeV [-17.244 MeV] (D\_Os:11)

186Os76 + 7 D\* --> 186Os76 + 14N7 + 89.087 MeV [-23.985 MeV] (D\_Os:12)

186Os76 + 8 D\* --> 186Os76 + 16O8 + 109.823 MeV [-20.545 MeV] (D\_Os:13)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
Creating Stable Isotope Z Via Nuclear Catalytic Action

186Os76 + 10 D* --> 186Os76 + 20Ne10 + 138.399 MeV [-27.400 MeV]	(D_Os:14)
187Os76 + 2 D* --> 187Os76 + 4He2 + 23.847 MeV [-6.959 MeV]	(D_Os:15)
187Os76 + 3 D* --> 187Os76 + 6Li3 + 25.320 MeV [-21.326 MeV]	(D_Os:16)
187Os76 + 5 D* --> 187Os76 + 10B5 + 53.628 MeV [-25.566 MeV]	(D_Os:17)
187Os76 + 6 D* --> 187Os76 + 12C6 + 78.814 MeV [-17.083 MeV]	(D_Os:18)
187Os76 + 7 D* --> 187Os76 + 14N7 + 89.087 MeV [-23.797 MeV]	(D_Os:19)
187Os76 + 8 D* --> 187Os76 + 16O8 + 109.823 MeV [-20.331 MeV]	(D_Os:20)
187Os76 + 10 D* --> 187Os76 + 20Ne10 + 138.399 MeV [-27.133 MeV]	(D_Os:21)
188Os76 + 2 D* --> 188Os76 + 4He2 + 23.847 MeV [-6.905 MeV]	(D_Os:22)
188Os76 + 3 D* --> 188Os76 + 6Li3 + 25.320 MeV [-21.246 MeV]	(D_Os:23)
188Os76 + 5 D* --> 188Os76 + 10B5 + 53.628 MeV [-25.432 MeV]	(D_Os:24)
188Os76 + 6 D* --> 188Os76 + 12C6 + 78.814 MeV [-16.922 MeV]	(D_Os:25)
188Os76 + 7 D* --> 188Os76 + 14N7 + 89.087 MeV [-23.611 MeV]	(D_Os:26)
188Os76 + 8 D* --> 188Os76 + 16O8 + 109.823 MeV [-20.118 MeV]	(D_Os:27)
188Os76 + 10 D* --> 188Os76 + 20Ne10 + 138.399 MeV [-26.867 MeV]	(D_Os:28)
189Os76 + 2 D* --> 189Os76 + 4He2 + 23.847 MeV [-6.852 MeV]	(D_Os:29)
189Os76 + 3 D* --> 189Os76 + 6Li3 + 25.320 MeV [-21.166 MeV]	(D_Os:30)
189Os76 + 5 D* --> 189Os76 + 10B5 + 53.628 MeV [-25.300 MeV]	(D_Os:31)
189Os76 + 6 D* --> 189Os76 + 12C6 + 78.814 MeV [-16.763 MeV]	(D_Os:32)
189Os76 + 7 D* --> 189Os76 + 14N7 + 89.087 MeV [-23.425 MeV]	(D_Os:33)
189Os76 + 8 D* --> 189Os76 + 16O8 + 109.823 MeV [-19.906 MeV]	(D_Os:34)
189Os76 + 10 D* --> 189Os76 + 20Ne10 + 138.399 MeV [-26.603 MeV]	(D_Os:35)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
Creating Stable Isotope Z Via Nuclear Catalytic Action

190Os76 + 2 D\* --> 190Os76 + 4He2 + 23.847 MeV [-6.799 MeV] (D\_Os:36)

190Os76 + 3 D\* --> 190Os76 + 6Li3 + 25.320 MeV [-21.087 MeV] (D\_Os:37)

190Os76 + 5 D\* --> 190Os76 + 10B5 + 53.628 MeV [-25.168 MeV] (D\_Os:38)

190Os76 + 6 D\* --> 190Os76 + 12C6 + 78.814 MeV [-16.605 MeV] (D\_Os:39)

190Os76 + 7 D\* --> 190Os76 + 14N7 + 89.087 MeV [-23.241 MeV] (D\_Os:40)

190Os76 + 8 D\* --> 190Os76 + 16O8 + 109.823 MeV [-19.696 MeV] (D\_Os:41)

190Os76 + 10 D\* --> 190Os76 + 20Ne10 + 138.399 MeV [-26.341 MeV] (D\_Os:42)

192Os76 + 2 D\* --> 192Os76 + 4He2 + 23.847 MeV [-6.695 MeV] (D\_Os:43)

192Os76 + 3 D\* --> 192Os76 + 6Li3 + 25.320 MeV [-20.930 MeV] (D\_Os:44)

192Os76 + 5 D\* --> 192Os76 + 10B5 + 53.628 MeV [-24.907 MeV] (D\_Os:45)

192Os76 + 6 D\* --> 192Os76 + 12C6 + 78.814 MeV [-16.293 MeV] (D\_Os:46)

192Os76 + 7 D\* --> 192Os76 + 14N7 + 89.087 MeV [-22.877 MeV] (D\_Os:47)

192Os76 + 8 D\* --> 192Os76 + 16O8 + 109.823 MeV [-19.279 MeV] (D\_Os:48)

192Os76 + 10 D\* --> 192Os76 + 20Ne10 + 138.399 MeV [-25.821 MeV] (D\_Os:49)

----- Equations follow for Iridium, Ir, element 77 -----

191Ir77 + 2 D\* --> 191Ir77 + 4He2 + 23.847 MeV [-7.144 MeV] (D\_Ir:1)

191Ir77 + 3 D\* --> 191Ir77 + 6Li3 + 25.320 MeV [-21.602 MeV] (D\_Ir:2)

191Ir77 + 5 D\* --> 191Ir77 + 10B5 + 53.628 MeV [-26.020 MeV] (D\_Ir:3)

191Ir77 + 6 D\* --> 191Ir77 + 12C6 + 78.814 MeV [-17.625 MeV] (D\_Ir:4)

191Ir77 + 7 D\* --> 191Ir77 + 14N7 + 89.087 MeV [-24.426 MeV] (D\_Ir:5)

191Ir77 + 8 D\* --> 191Ir77 + 16O8 + 109.823 MeV [-21.045 MeV] (D\_Ir:6)

191Ir77 + 10 D\* --> 191Ir77 + 20Ne10 + 138.399 MeV [-28.015 MeV] (D\_Ir:7)

193Ir77 + 2 D\* --> 193Ir77 + 4He2 + 23.847 MeV [-7.039 MeV] (D\_Ir:8)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
 Creating Stable Isotope Z Via Nuclear Catalytic Action

193Ir77 + 3 D\* --> 193Ir77 + 6Li3 + 25.320 MeV [-21.444 MeV] (D\_Ir:9)

193Ir77 + 5 D\* --> 193Ir77 + 10B5 + 53.628 MeV [-25.758 MeV] (D\_Ir:10)

193Ir77 + 6 D\* --> 193Ir77 + 12C6 + 78.814 MeV [-17.310 MeV] (D\_Ir:11)

193Ir77 + 7 D\* --> 193Ir77 + 14N7 + 89.087 MeV [-24.059 MeV] (D\_Ir:12)

193Ir77 + 8 D\* --> 193Ir77 + 16O8 + 109.823 MeV [-20.626 MeV] (D\_Ir:13)

193Ir77 + 10 D\* --> 193Ir77 + 20Ne10 + 138.399 MeV [-27.492 MeV] (D\_Ir:14)

----- Equations follow for Platinum, Pt, element 78 -----

190Pt78 + 2 D\* --> 190Pt78 + 4He2 + 23.847 MeV [-7.595 MeV] (D\_Pt:1)

190Pt78 + 3 D\* --> 190Pt78 + 6Li3 + 25.320 MeV [-22.276 MeV] (D\_Pt:2)

190Pt78 + 5 D\* --> 190Pt78 + 10B5 + 53.628 MeV [-27.138 MeV] (D\_Pt:3)

190Pt78 + 6 D\* --> 190Pt78 + 12C6 + 78.814 MeV [-18.961 MeV] (D\_Pt:4)

190Pt78 + 7 D\* --> 190Pt78 + 14N7 + 89.087 MeV [-25.981 MeV] (D\_Pt:5)

190Pt78 + 8 D\* --> 190Pt78 + 16O8 + 109.823 MeV [-22.817 MeV] (D\_Pt:6)

190Pt78 + 10 D\* --> 190Pt78 + 20Ne10 + 138.399 MeV [-30.217 MeV] (D\_Pt:7)

192Pt78 + 2 D\* --> 192Pt78 + 4He2 + 23.847 MeV [-7.488 MeV] (D\_Pt:8)

192Pt78 + 3 D\* --> 192Pt78 + 6Li3 + 25.320 MeV [-22.116 MeV] (D\_Pt:9)

192Pt78 + 5 D\* --> 192Pt78 + 10B5 + 53.628 MeV [-26.870 MeV] (D\_Pt:10)

192Pt78 + 6 D\* --> 192Pt78 + 12C6 + 78.814 MeV [-18.641 MeV] (D\_Pt:11)

192Pt78 + 7 D\* --> 192Pt78 + 14N7 + 89.087 MeV [-25.607 MeV] (D\_Pt:12)

192Pt78 + 8 D\* --> 192Pt78 + 16O8 + 109.823 MeV [-22.390 MeV] (D\_Pt:13)

192Pt78 + 10 D\* --> 192Pt78 + 20Ne10 + 138.399 MeV [-29.685 MeV] (D\_Pt:14)

194Pt78 + 2 D\* --> 194Pt78 + 4He2 + 23.847 MeV [-7.382 MeV] (D\_Pt:15)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
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194Pt78 + 3 D* --> 194Pt78 + 6Li3 + 25.320 MeV [-21.957 MeV]	(D_Pt:16)
194Pt78 + 5 D* --> 194Pt78 + 10B5 + 53.628 MeV [-26.606 MeV]	(D_Pt:17)
194Pt78 + 6 D* --> 194Pt78 + 12C6 + 78.814 MeV [-18.324 MeV]	(D_Pt:18)
194Pt78 + 7 D* --> 194Pt78 + 14N7 + 89.087 MeV [-25.239 MeV]	(D_Pt:19)
194Pt78 + 8 D* --> 194Pt78 + 16O8 + 109.823 MeV [-21.969 MeV]	(D_Pt:20)
194Pt78 + 10 D* --> 194Pt78 + 20Ne10 + 138.399 MeV [-29.160 MeV]	(D_Pt:21)
195Pt78 + 2 D* --> 195Pt78 + 4He2 + 23.847 MeV [-7.330 MeV]	(D_Pt:22)
195Pt78 + 3 D* --> 195Pt78 + 6Li3 + 25.320 MeV [-21.879 MeV]	(D_Pt:23)
195Pt78 + 5 D* --> 195Pt78 + 10B5 + 53.628 MeV [-26.476 MeV]	(D_Pt:24)
195Pt78 + 6 D* --> 195Pt78 + 12C6 + 78.814 MeV [-18.168 MeV]	(D_Pt:25)
195Pt78 + 7 D* --> 195Pt78 + 14N7 + 89.087 MeV [-25.056 MeV]	(D_Pt:26)
195Pt78 + 8 D* --> 195Pt78 + 16O8 + 109.823 MeV [-21.760 MeV]	(D_Pt:27)
195Pt78 + 10 D* --> 195Pt78 + 20Ne10 + 138.399 MeV [-28.899 MeV]	(D_Pt:28)
196Pt78 + 2 D* --> 196Pt78 + 4He2 + 23.847 MeV [-7.278 MeV]	(D_Pt:29)
196Pt78 + 3 D* --> 196Pt78 + 6Li3 + 25.320 MeV [-21.800 MeV]	(D_Pt:30)
196Pt78 + 5 D* --> 196Pt78 + 10B5 + 53.628 MeV [-26.346 MeV]	(D_Pt:31)
196Pt78 + 6 D* --> 196Pt78 + 12C6 + 78.814 MeV [-18.012 MeV]	(D_Pt:32)
196Pt78 + 7 D* --> 196Pt78 + 14N7 + 89.087 MeV [-24.874 MeV]	(D_Pt:33)
196Pt78 + 8 D* --> 196Pt78 + 16O8 + 109.823 MeV [-21.553 MeV]	(D_Pt:34)
196Pt78 + 10 D* --> 196Pt78 + 20Ne10 + 138.399 MeV [-28.641 MeV]	(D_Pt:35)
198Pt78 + 2 D* --> 198Pt78 + 4He2 + 23.847 MeV [-7.175 MeV]	(D_Pt:36)
198Pt78 + 3 D* --> 198Pt78 + 6Li3 + 25.320 MeV [-21.646 MeV]	(D_Pt:37)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
 Creating Stable Isotope Z Via Nuclear Catalytic Action

198Pt78 + 5 D\* --> 198Pt78 + 10B5 + 53.628 MeV [-26.089 MeV] (D\_Pt:38)

198Pt78 + 6 D\* --> 198Pt78 + 12C6 + 78.814 MeV [-17.704 MeV] (D\_Pt:39)

198Pt78 + 7 D\* --> 198Pt78 + 14N7 + 89.087 MeV [-24.515 MeV] (D\_Pt:40)

198Pt78 + 8 D\* --> 198Pt78 + 16O8 + 109.823 MeV [-21.143 MeV] (D\_Pt:41)

198Pt78 + 10 D\* --> 198Pt78 + 20Ne10 + 138.399 MeV [-28.128 MeV] (D\_Pt:42)

----- Equations follow for Gold, Au, element 79 -----

197Au79 + 2 D\* --> 197Au79 + 4He2 + 23.847 MeV [-7.619 MeV] (D\_Au:1)

197Au79 + 3 D\* --> 197Au79 + 6Li3 + 25.320 MeV [-22.311 MeV] (D\_Au:2)

197Au79 + 5 D\* --> 197Au79 + 10B5 + 53.628 MeV [-27.191 MeV] (D\_Au:3)

197Au79 + 6 D\* --> 197Au79 + 12C6 + 78.814 MeV [-19.022 MeV] (D\_Au:4)

197Au79 + 7 D\* --> 197Au79 + 14N7 + 89.087 MeV [-26.049 MeV] (D\_Au:5)

197Au79 + 8 D\* --> 197Au79 + 16O8 + 109.823 MeV [-22.891 MeV] (D\_Au:6)

197Au79 + 10 D\* --> 197Au79 + 20Ne10 + 138.399 MeV [-30.301 MeV] (D\_Au:7)

----- Equations follow for Mercury, Hg, element 80 -----

196Hg80 + 2 D\* --> 196Hg80 + 4He2 + 23.847 MeV [-8.066 MeV] (D\_Hg:1)

196Hg80 + 3 D\* --> 196Hg80 + 6Li3 + 25.320 MeV [-22.979 MeV] (D\_Hg:2)

196Hg80 + 5 D\* --> 196Hg80 + 10B5 + 53.628 MeV [-28.296 MeV] (D\_Hg:3)

196Hg80 + 6 D\* --> 196Hg80 + 12C6 + 78.814 MeV [-20.345 MeV] (D\_Hg:4)

196Hg80 + 7 D\* --> 196Hg80 + 14N7 + 89.087 MeV [-27.588 MeV] (D\_Hg:5)

196Hg80 + 8 D\* --> 196Hg80 + 16O8 + 109.823 MeV [-24.644 MeV] (D\_Hg:6)

196Hg80 + 10 D\* --> 196Hg80 + 20Ne10 + 138.399 MeV [-32.481 MeV] (D\_Hg:7)

198Hg80 + 2 D\* --> 198Hg80 + 4He2 + 23.847 MeV [-7.960 MeV] (D\_Hg:8)

198Hg80 + 3 D\* --> 198Hg80 + 6Li3 + 25.320 MeV [-22.820 MeV] (D\_Hg:9)

Report D - Energetically Feasible Aneutronic X + n D\* --> X + Z Reactions, n = 1 to 10  
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198Hg80 + 5 D* --> 198Hg80 + 10B5 + 53.628 MeV [-28.033 MeV]	(D_Hg:10)
198Hg80 + 6 D* --> 198Hg80 + 12C6 + 78.814 MeV [-20.029 MeV]	(D_Hg:11)
198Hg80 + 7 D* --> 198Hg80 + 14N7 + 89.087 MeV [-27.220 MeV]	(D_Hg:12)
198Hg80 + 8 D* --> 198Hg80 + 16O8 + 109.823 MeV [-24.224 MeV]	(D_Hg:13)
198Hg80 + 10 D* --> 198Hg80 + 20Ne10 + 138.399 MeV [-31.957 MeV]	(D_Hg:14)
199Hg80 + 2 D* --> 199Hg80 + 4He2 + 23.847 MeV [-7.908 MeV]	(D_Hg:15)
199Hg80 + 3 D* --> 199Hg80 + 6Li3 + 25.320 MeV [-22.742 MeV]	(D_Hg:16)
199Hg80 + 5 D* --> 199Hg80 + 10B5 + 53.628 MeV [-27.903 MeV]	(D_Hg:17)
199Hg80 + 6 D* --> 199Hg80 + 12C6 + 78.814 MeV [-19.873 MeV]	(D_Hg:18)
199Hg80 + 7 D* --> 199Hg80 + 14N7 + 89.087 MeV [-27.037 MeV]	(D_Hg:19)
199Hg80 + 8 D* --> 199Hg80 + 16O8 + 109.823 MeV [-24.016 MeV]	(D_Hg:20)
199Hg80 + 10 D* --> 199Hg80 + 20Ne10 + 138.399 MeV [-31.697 MeV]	(D_Hg:21)
200Hg80 + 2 D* --> 200Hg80 + 4He2 + 23.847 MeV [-7.856 MeV]	(D_Hg:22)
200Hg80 + 3 D* --> 200Hg80 + 6Li3 + 25.320 MeV [-22.664 MeV]	(D_Hg:23)
200Hg80 + 5 D* --> 200Hg80 + 10B5 + 53.628 MeV [-27.773 MeV]	(D_Hg:24)
200Hg80 + 6 D* --> 200Hg80 + 12C6 + 78.814 MeV [-19.718 MeV]	(D_Hg:25)
200Hg80 + 7 D* --> 200Hg80 + 14N7 + 89.087 MeV [-26.856 MeV]	(D_Hg:26)
200Hg80 + 8 D* --> 200Hg80 + 16O8 + 109.823 MeV [-23.809 MeV]	(D_Hg:27)
200Hg80 + 10 D* --> 200Hg80 + 20Ne10 + 138.399 MeV [-31.439 MeV]	(D_Hg:28)
201Hg80 + 2 D* --> 201Hg80 + 4He2 + 23.847 MeV [-7.804 MeV]	(D_Hg:29)
201Hg80 + 3 D* --> 201Hg80 + 6Li3 + 25.320 MeV [-22.586 MeV]	(D_Hg:30)
201Hg80 + 5 D* --> 201Hg80 + 10B5 + 53.628 MeV [-27.644 MeV]	(D_Hg:31)

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201Hg80 + 6 D\* --> 201Hg80 + 12C6 + 78.814 MeV [-19.563 MeV] (D\_Hg:32)

201Hg80 + 7 D\* --> 201Hg80 + 14N7 + 89.087 MeV [-26.676 MeV] (D\_Hg:33)

201Hg80 + 8 D\* --> 201Hg80 + 16O8 + 109.823 MeV [-23.604 MeV] (D\_Hg:34)

201Hg80 + 10 D\* --> 201Hg80 + 20Ne10 + 138.399 MeV [-31.182 MeV] (D\_Hg:35)

202Hg80 + 2 D\* --> 202Hg80 + 4He2 + 23.847 MeV [-7.753 MeV] (D\_Hg:36)

202Hg80 + 3 D\* --> 202Hg80 + 6Li3 + 25.320 MeV [-22.510 MeV] (D\_Hg:37)

202Hg80 + 5 D\* --> 202Hg80 + 10B5 + 53.628 MeV [-27.516 MeV] (D\_Hg:38)

202Hg80 + 6 D\* --> 202Hg80 + 12C6 + 78.814 MeV [-19.410 MeV] (D\_Hg:39)

202Hg80 + 7 D\* --> 202Hg80 + 14N7 + 89.087 MeV [-26.497 MeV] (D\_Hg:40)

202Hg80 + 8 D\* --> 202Hg80 + 16O8 + 109.823 MeV [-23.399 MeV] (D\_Hg:41)

202Hg80 + 10 D\* --> 202Hg80 + 20Ne10 + 138.399 MeV [-30.927 MeV] (D\_Hg:42)

204Hg80 + 2 D\* --> 204Hg80 + 4He2 + 23.847 MeV [-7.651 MeV] (D\_Hg:43)

204Hg80 + 3 D\* --> 204Hg80 + 6Li3 + 25.320 MeV [-22.357 MeV] (D\_Hg:44)

204Hg80 + 5 D\* --> 204Hg80 + 10B5 + 53.628 MeV [-27.263 MeV] (D\_Hg:45)

204Hg80 + 6 D\* --> 204Hg80 + 12C6 + 78.814 MeV [-19.106 MeV] (D\_Hg:46)

204Hg80 + 7 D\* --> 204Hg80 + 14N7 + 89.087 MeV [-26.143 MeV] (D\_Hg:47)

204Hg80 + 8 D\* --> 204Hg80 + 16O8 + 109.823 MeV [-22.994 MeV] (D\_Hg:48)

204Hg80 + 10 D\* --> 204Hg80 + 20Ne10 + 138.399 MeV [-30.422 MeV] (D\_Hg:49)

----- Equations follow for Thallium, Tl, element 81 -----

203Tl81 + 2 D\* --> 203Tl81 + 4He2 + 23.847 MeV [-8.091 MeV] (D\_Tl:1)

203Tl81 + 3 D\* --> 203Tl81 + 6Li3 + 25.320 MeV [-23.016 MeV] (D\_Tl:2)

203Tl81 + 5 D\* --> 203Tl81 + 10B5 + 53.628 MeV [-28.353 MeV] (D\_Tl:3)

203Tl81 + 6 D\* --> 203Tl81 + 12C6 + 78.814 MeV [-20.411 MeV] (D\_Tl:4)

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203Tl81 + 7 D\* --> 203Tl81 + 14N7 + 89.087 MeV [-27.661 MeV] (D\_Tl:5)

203Tl81 + 8 D\* --> 203Tl81 + 16O8 + 109.823 MeV [-24.725 MeV] (D\_Tl:6)

203Tl81 + 10 D\* --> 203Tl81 + 20Ne10 + 138.399 MeV [-32.574 MeV] (D\_Tl:7)

205Tl81 + 2 D\* --> 205Tl81 + 4He2 + 23.847 MeV [-7.989 MeV] (D\_Tl:8)

205Tl81 + 3 D\* --> 205Tl81 + 6Li3 + 25.320 MeV [-22.862 MeV] (D\_Tl:9)

205Tl81 + 5 D\* --> 205Tl81 + 10B5 + 53.628 MeV [-28.098 MeV] (D\_Tl:10)

205Tl81 + 6 D\* --> 205Tl81 + 12C6 + 78.814 MeV [-20.105 MeV] (D\_Tl:11)

205Tl81 + 7 D\* --> 205Tl81 + 14N7 + 89.087 MeV [-27.305 MeV] (D\_Tl:12)

205Tl81 + 8 D\* --> 205Tl81 + 16O8 + 109.823 MeV [-24.318 MeV] (D\_Tl:13)

205Tl81 + 10 D\* --> 205Tl81 + 20Ne10 + 138.399 MeV [-32.065 MeV] (D\_Tl:14)

----- Equations follow for Lead, Pb, element 82 -----

204Pb82 + 2 D\* --> 204Pb82 + 4He2 + 23.847 MeV [-8.429 MeV] (D\_Pb:1)

204Pb82 + 3 D\* --> 204Pb82 + 6Li3 + 25.320 MeV [-23.520 MeV] (D\_Pb:2)

204Pb82 + 5 D\* --> 204Pb82 + 10B5 + 53.628 MeV [-29.189 MeV] (D\_Pb:3)

204Pb82 + 6 D\* --> 204Pb82 + 12C6 + 78.814 MeV [-21.410 MeV] (D\_Pb:4)

204Pb82 + 7 D\* --> 204Pb82 + 14N7 + 89.087 MeV [-28.823 MeV] (D\_Pb:5)

204Pb82 + 8 D\* --> 204Pb82 + 16O8 + 109.823 MeV [-26.048 MeV] (D\_Pb:6)

204Pb82 + 10 D\* --> 204Pb82 + 20Ne10 + 138.399 MeV [-34.216 MeV] (D\_Pb:7)

206Pb82 + 2 D\* --> 206Pb82 + 4He2 + 23.847 MeV [-8.326 MeV] (D\_Pb:8)

206Pb82 + 3 D\* --> 206Pb82 + 6Li3 + 25.320 MeV [-23.366 MeV] (D\_Pb:9)

206Pb82 + 5 D\* --> 206Pb82 + 10B5 + 53.628 MeV [-28.932 MeV] (D\_Pb:10)

206Pb82 + 6 D\* --> 206Pb82 + 12C6 + 78.814 MeV [-21.102 MeV] (D\_Pb:11)

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Creating Stable Isotope Z Via Nuclear Catalytic Action

206Pb82 + 7 D\* --> 206Pb82 + 14N7 + 89.087 MeV [-28.464 MeV] (D\_Pb:12)

206Pb82 + 8 D\* --> 206Pb82 + 16O8 + 109.823 MeV [-25.638 MeV] (D\_Pb:13)

206Pb82 + 10 D\* --> 206Pb82 + 20Ne10 + 138.399 MeV [-33.705 MeV] (D\_Pb:14)

207Pb82 + 2 D\* --> 207Pb82 + 4He2 + 23.847 MeV [-8.275 MeV] (D\_Pb:15)

207Pb82 + 3 D\* --> 207Pb82 + 6Li3 + 25.320 MeV [-23.290 MeV] (D\_Pb:16)

207Pb82 + 5 D\* --> 207Pb82 + 10B5 + 53.628 MeV [-28.805 MeV] (D\_Pb:17)

207Pb82 + 6 D\* --> 207Pb82 + 12C6 + 78.814 MeV [-20.950 MeV] (D\_Pb:18)

207Pb82 + 7 D\* --> 207Pb82 + 14N7 + 89.087 MeV [-28.287 MeV] (D\_Pb:19)

207Pb82 + 8 D\* --> 207Pb82 + 16O8 + 109.823 MeV [-25.436 MeV] (D\_Pb:20)

207Pb82 + 10 D\* --> 207Pb82 + 20Ne10 + 138.399 MeV [-33.452 MeV] (D\_Pb:21)

208Pb82 + 2 D\* --> 208Pb82 + 4He2 + 23.847 MeV [-8.225 MeV] (D\_Pb:22)

208Pb82 + 3 D\* --> 208Pb82 + 6Li3 + 25.320 MeV [-23.214 MeV] (D\_Pb:23)

208Pb82 + 5 D\* --> 208Pb82 + 10B5 + 53.628 MeV [-28.679 MeV] (D\_Pb:24)

208Pb82 + 6 D\* --> 208Pb82 + 12C6 + 78.814 MeV [-20.799 MeV] (D\_Pb:25)

208Pb82 + 7 D\* --> 208Pb82 + 14N7 + 89.087 MeV [-28.110 MeV] (D\_Pb:26)

208Pb82 + 8 D\* --> 208Pb82 + 16O8 + 109.823 MeV [-25.234 MeV] (D\_Pb:27)

208Pb82 + 10 D\* --> 208Pb82 + 20Ne10 + 138.399 MeV [-33.200 MeV] (D\_Pb:28)

----- Equations follow for Bismuth, Bi, element 83 -----

209Bi83 + 2 D\* --> 209Bi83 + 4He2 + 23.847 MeV [-8.560 MeV] (D\_Bi:1)

209Bi83 + 3 D\* --> 209Bi83 + 6Li3 + 25.320 MeV [-23.715 MeV] (D\_Bi:2)

209Bi83 + 5 D\* --> 209Bi83 + 10B5 + 53.628 MeV [-29.509 MeV] (D\_Bi:3)

209Bi83 + 6 D\* --> 209Bi83 + 12C6 + 78.814 MeV [-21.791 MeV] (D\_Bi:4)

209Bi83 + 7 D\* --> 209Bi83 + 14N7 + 89.087 MeV [-29.264 MeV] (D\_Bi:5)

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 Creating Stable Isotope Z Via Nuclear Catalytic Action

209Bi83 + 8 D\* --> 209Bi83 + 16O8 + 109.823 MeV [-26.549 MeV] (D\_Bi:6)

209Bi83 + 10 D\* --> 209Bi83 + 20Ne10 + 138.399 MeV [-34.833 MeV] (D\_Bi:7)

----- Equations follow for Thorium, Th, element 90 -----

232Th90 + 2 D\* --> 232Th90 + 4He2 + 23.847 MeV [-10.081 MeV] (D\_Th:1)

232Th90 + 3 D\* --> 232Th90 + 6Li3 + 25.320 MeV [-25.986 MeV] (D\_Th:2)

232Th90 + 5 D\* --> 232Th90 + 10B5 + 53.628 MeV [-33.257 MeV] (D\_Th:3)

232Th90 + 6 D\* --> 232Th90 + 12C6 + 78.814 MeV [-26.268 MeV] (D\_Th:4)

232Th90 + 7 D\* --> 232Th90 + 14N7 + 89.087 MeV [-34.464 MeV] (D\_Th:5)

232Th90 + 8 D\* --> 232Th90 + 16O8 + 109.823 MeV [-32.464 MeV] (D\_Th:6)

232Th90 + 10 D\* --> 232Th90 + 20Ne10 + 138.399 MeV [-42.161 MeV] (D\_Th:7)

----- Equations follow for Protactinium, Pa, element 91 -----

231Pa91 + 2 D\* --> 231Pa91 + 4He2 + 23.847 MeV [-10.502 MeV] (D\_Pa:1)

231Pa91 + 3 D\* --> 231Pa91 + 6Li3 + 25.320 MeV [-26.616 MeV] (D\_Pa:2)

231Pa91 + 5 D\* --> 231Pa91 + 10B5 + 53.628 MeV [-34.303 MeV] (D\_Pa:3)

231Pa91 + 6 D\* --> 231Pa91 + 12C6 + 78.814 MeV [-27.520 MeV] (D\_Pa:4)

231Pa91 + 7 D\* --> 231Pa91 + 14N7 + 89.087 MeV [-35.920 MeV] (D\_Pa:5)

231Pa91 + 8 D\* --> 231Pa91 + 16O8 + 109.823 MeV [-34.124 MeV] (D\_Pa:6)

231Pa91 + 10 D\* --> 231Pa91 + 20Ne10 + 138.399 MeV [-44.226 MeV] (D\_Pa:7)

----- Equations follow for Uranium, U, element 92 -----

234U92 + 2 D\* --> 234U92 + 4He2 + 23.847 MeV [-10.729 MeV] (D\_U:1)

234U92 + 3 D\* --> 234U92 + 6Li3 + 25.320 MeV [-26.955 MeV] (D\_U:2)

234U92 + 5 D\* --> 234U92 + 10B5 + 53.628 MeV [-34.863 MeV] (D\_U:3)

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234U92 + 6 D* --> 234U92 + 12C6 + 78.814 MeV [-28.189 MeV]	(D_U:4)
234U92 + 7 D* --> 234U92 + 14N7 + 89.087 MeV [-36.698 MeV]	(D_U:5)
234U92 + 8 D* --> 234U92 + 16O8 + 109.823 MeV [-35.009 MeV]	(D_U:6)
234U92 + 10 D* --> 234U92 + 20Ne10 + 138.399 MeV [-45.323 MeV]	(D_U:7)
235U92 + 2 D* --> 235U92 + 4He2 + 23.847 MeV [-10.681 MeV]	(D_U:8)
235U92 + 3 D* --> 235U92 + 6Li3 + 25.320 MeV [-26.883 MeV]	(D_U:9)
235U92 + 5 D* --> 235U92 + 10B5 + 53.628 MeV [-34.742 MeV]	(D_U:10)
235U92 + 6 D* --> 235U92 + 12C6 + 78.814 MeV [-28.044 MeV]	(D_U:11)
235U92 + 7 D* --> 235U92 + 14N7 + 89.087 MeV [-36.529 MeV]	(D_U:12)
235U92 + 8 D* --> 235U92 + 16O8 + 109.823 MeV [-34.817 MeV]	(D_U:13)
235U92 + 10 D* --> 235U92 + 20Ne10 + 138.399 MeV [-45.083 MeV]	(D_U:14)
238U92 + 2 D* --> 238U92 + 4He2 + 23.847 MeV [-10.538 MeV]	(D_U:15)
238U92 + 3 D* --> 238U92 + 6Li3 + 25.320 MeV [-26.668 MeV]	(D_U:16)
238U92 + 5 D* --> 238U92 + 10B5 + 53.628 MeV [-34.384 MeV]	(D_U:17)
238U92 + 6 D* --> 238U92 + 12C6 + 78.814 MeV [-27.615 MeV]	(D_U:18)
238U92 + 7 D* --> 238U92 + 14N7 + 89.087 MeV [-36.028 MeV]	(D_U:19)
238U92 + 8 D* --> 238U92 + 16O8 + 109.823 MeV [-34.245 MeV]	(D_U:20)
238U92 + 10 D* --> 238U92 + 20Ne10 + 138.399 MeV [-44.369 MeV]	(D_U:21)

Total number of reaction equations: 2016

Maximum number of D fused with X: 10

Adjustment factor to compound nucleus radius: 1

Energy threshold for including reaction, in eV: 10

Note - D\* denotes a deflated state hydrogen nucleus, including the electron

Note - the energy in brackets is initial compound nucleus net energy,

i.e. the fusion energy less the deflated electron energy deficit