

Report E - Energetically Feasible Aneutronic $X + n D^* \rightarrow Y + Z$ Reactions, $n = 1$ to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

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

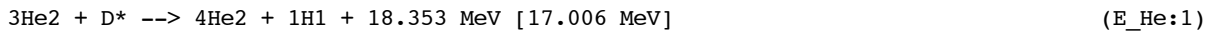


Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
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Fusion Product Chart for H + n D reactions

		Relative Percent											
Abs.		0	10	20	30	40	50	60	70	80	90	100	
Z	Percent	El.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
2	100.000	He	*****										
			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
			0	10	20	30	40	50	60	70	80	90	100

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

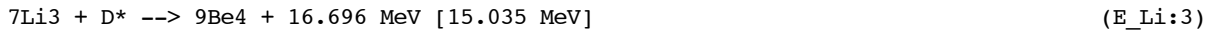
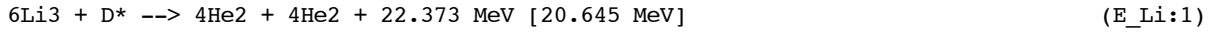


Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
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Fusion Product Chart for He + n D reactions

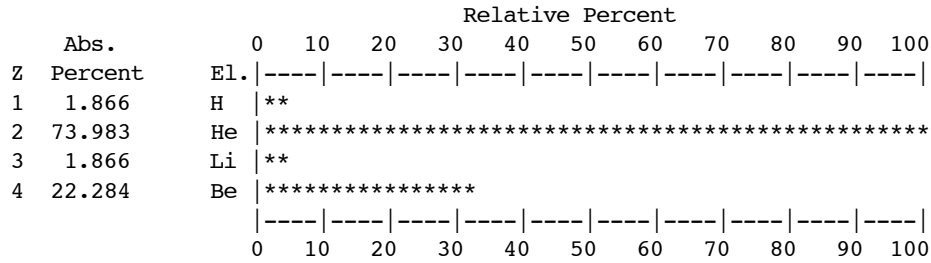
		Relative Percent											
Abs.		0	10	20	30	40	50	60	70	80	90	100	
Z	Percent	El.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
1	49.819	H	*****										
2	49.819	He	*****										
3	00.363	Li	*										
			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
			0	10	20	30	40	50	60	70	80	90	100

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

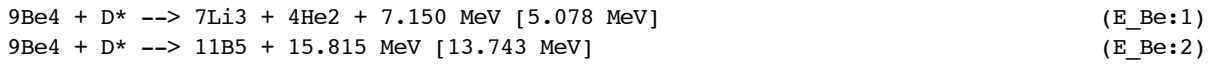


Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
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Fusion Product Chart for Li + n D reactions

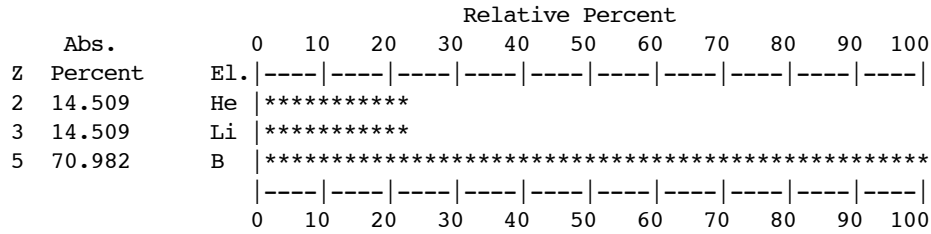


----- Equations follow for Beryllium, Be, element 4 -----



Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
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Fusion Product Chart for Be + n D reactions



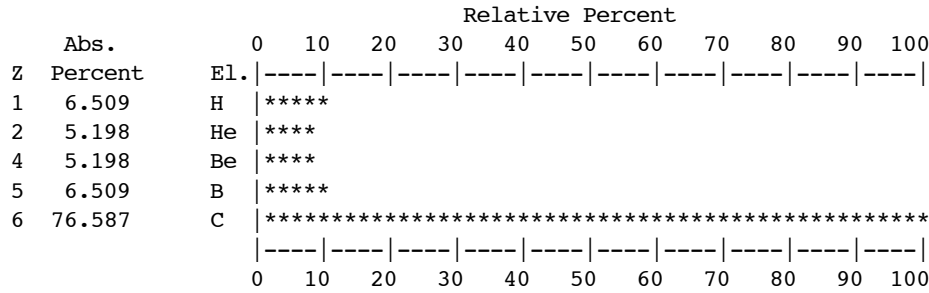
----- Equations follow for Boron, B, element 5 -----

- 10B5 + D* --> 11B5 + 1H1 + 9.230 MeV [6.714 MeV] (E_B:1)
- 10B5 + D* --> 12C6 + 25.186 MeV [22.671 MeV] (E_B:2)

- 11B5 + D* --> 9Be4 + 4He2 + 8.031 MeV [5.581 MeV] (E_B:3)
- 11B5 + D* --> 13C6 + 18.679 MeV [16.229 MeV] (E_B:4)

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Fusion Product Chart for B + n D reactions



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

- 12C6 + D* --> 13C6 + 1H1 + 2.722 MeV [-0.146 MeV] (E_C:1)
- 12C6 + D* --> 14N7 + 10.272 MeV [7.404 MeV] (E_C:2)
- 13C6 + D* --> 11B5 + 4He2 + 5.168 MeV [2.365 MeV] (E_C:3)
- 13C6 + D* --> 15N7 + 16.159 MeV [13.357 MeV] (E_C:4)

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Fusion Product Chart for C + n D reactions

Z	Abs. Percent	El.	Relative Percent																	
			0	10	20	30	40	50	60	70	80	90	100							
1	1.647	H	*																	
2	6.219	He	****																	
5	6.219	B	****																	
6	1.647	C	*																	
7	84.268	N	*****																	

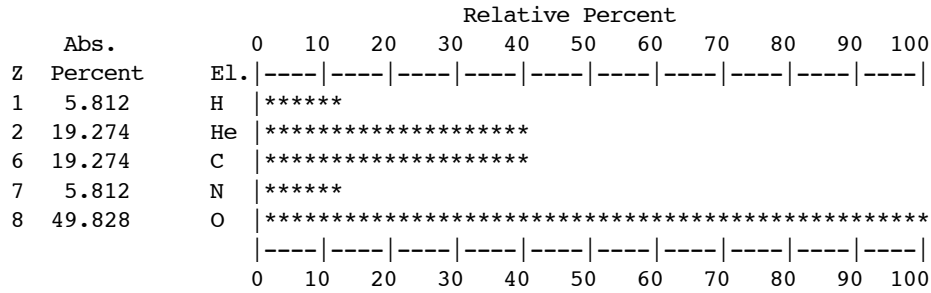
----- Equations follow for Nitrogen, N, element 7 -----

- 14N7 + D* --> 12C6 + 4He2 + 13.574 MeV [10.374 MeV] (E_N:1)
- 14N7 + D* --> 15N7 + 1H1 + 8.609 MeV [5.409 MeV] (E_N:2)
- 14N7 + D* --> 16O8 + 20.736 MeV [17.536 MeV] (E_N:3)

- 15N7 + D* --> 13C6 + 4He2 + 7.687 MeV [4.551 MeV] (E_N:4)
- 15N7 + D* --> 17O8 + 14.046 MeV [10.910 MeV] (E_N:5)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
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Fusion Product Chart for N + n D reactions



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

- 16O8 + D* --> 14N7 + 4He2 + 3.110 MeV [-0.406 MeV] (E_O:1)
- 16O8 + D* --> 17O8 + 1H1 + 1.919 MeV [-1.598 MeV] (E_O:2)
- 17O8 + D* --> 15N7 + 4He2 + 9.801 MeV [6.347 MeV] (E_O:3)
- 17O8 + D* --> 18O8 + 1H1 + 5.819 MeV [2.366 MeV] (E_O:4)
- 17O8 + D* --> 19F9 + 13.814 MeV [10.361 MeV] (E_O:5)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
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Fusion Product Chart for O + n D reactions

		Relative Percent											
Z	Abs. Percent	El.	0	10	20	30	40	50	60	70	80	90	100
1	7.853	H	*****										
2	22.119	He	*****										
7	22.119	N	*****										
8	7.853	O	*****										
9	40.055	F	*****										

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

- 19F9 + D* --> 12C6 + 9Be4 + 00.301 MeV [-3.457 MeV] (E_F:1)
- 19F9 + D* --> 17O8 + 4He2 + 10.032 MeV [6.274 MeV] (E_F:2)
- 19F9 + D* --> 21Ne10 + 17.380 MeV [13.622 MeV] (E_F:3)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
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Fusion Product Chart for F + n D reactions

		Relative Percent											
Abs.	Percent	El.	0	10	20	30	40	50	60	70	80	90	100
2	19.988	He	*****										
4	00.018	Be	*										
6	00.018	C	*										
8	19.988	O	*****										
10	59.989	Ne	*****										

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

- 20Ne10 + D* --> 21Ne10 + 1H1 + 4.537 MeV [00.425 MeV] (E_Ne:1)
- 21Ne10 + D* --> 19F9 + 4He2 + 6.466 MeV [2.416 MeV] (E_Ne:2)
- 21Ne10 + D* --> 22Ne10 + 1H1 + 8.140 MeV [4.089 MeV] (E_Ne:3)
- 21Ne10 + D* --> 23Na11 + 16.934 MeV [12.883 MeV] (E_Ne:4)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
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Fusion Product Chart for Ne + n D reactions

Abs.		Relative Percent											
Z	Percent	El.	0	10	20	30	40	50	60	70	80	90	100
1	15.885	H	*****										
2	7.703	He	*****										
9	7.703	F	*****										
10	15.885	Ne	*****										
11	52.824	Na	*****										

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

- 23Na11 + D* --> 13C6 + 12C6 + 00.481 MeV [-3.853 MeV] (E_Na:1)
- 23Na11 + D* --> 21Ne10 + 4He2 + 6.913 MeV [2.579 MeV] (E_Na:2)
- 23Na11 + D* --> 25Mg12 + 16.799 MeV [12.465 MeV] (E_Na:3)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
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Fusion Product Chart for Na + n D reactions

		Relative Percent											
Abs.		0	10	20	30	40	50	60	70	80	90	100	
Z	Percent	El.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
2	12.634	He	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
6	00.122	C	*	*	*	*	*	*	*	*	*	*	
10	12.634	Ne	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
12	74.610	Mg	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
			0	10	20	30	40	50	60	70	80	90	100

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

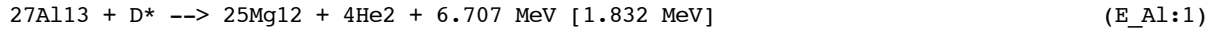
- 24Mg12 + D* --> 25Mg12 + 1H1 + 5.106 MeV [00.440 MeV] (E_Mg:1)
- 25Mg12 + D* --> 23Na11 + 4He2 + 7.048 MeV [2.440 MeV] (E_Mg:2)
- 25Mg12 + D* --> 26Mg12 + 1H1 + 8.869 MeV [4.261 MeV] (E_Mg:3)
- 25Mg12 + D* --> 27Al13 + 17.140 MeV [12.532 MeV] (E_Mg:4)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
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Fusion Product Chart for Mg + n D reactions

		Relative Percent											
Z	Abs. Percent	El.	0	10	20	30	40	50	60	70	80	90	100
1	17.309	H	*****										
2	8.261	He	*****										
11	8.261	Na	*****										
12	17.309	Mg	*****										
13	48.858	Al	*****										

----- Equations follow for Aluminum, Al, element 13 -----



Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
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Fusion Product Chart for Al + n D reactions

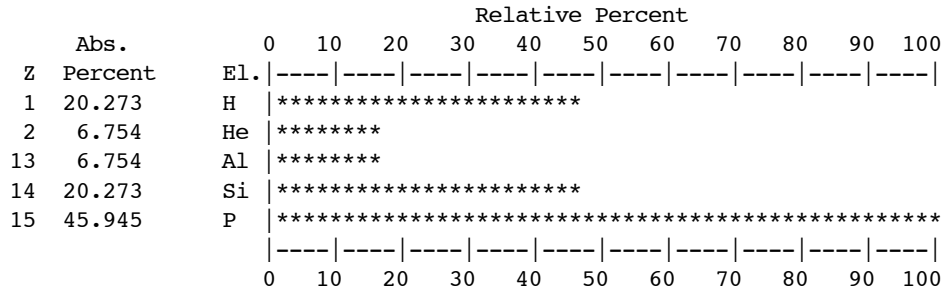
		Relative Percent											
Abs.		0	10	20	30	40	50	60	70	80	90	100	
Z	Percent	El.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
2	11.025	He	*****										
12	11.025	Mg	*****										
14	77.950	Si	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
			0	10	20	30	40	50	60	70	80	90	100

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

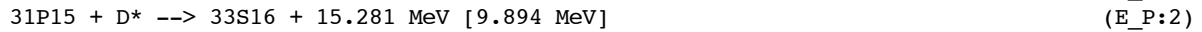
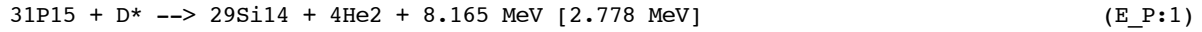
- 28Si14 + D* --> 29Si14 + 1H1 + 6.249 MeV [1.059 MeV] (E_Si:1)
- 29Si14 + D* --> 27Al13 + 4He2 + 6.012 MeV [00.878 MeV] (E_Si:2)
- 29Si14 + D* --> 30Si14 + 1H1 + 8.385 MeV [3.251 MeV] (E_Si:3)
- 29Si14 + D* --> 31P15 + 15.682 MeV [10.548 MeV] (E_Si:4)

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Fusion Product Chart for Si + n D reactions



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



Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
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Fusion Product Chart for P + n D reactions

		Relative Percent											
Abs.		0	10	20	30	40	50	60	70	80	90	100	
Z	Percent	El.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
2	18.173	He	*****										
14	18.173	Si	*****										
16	63.653	S	*****										
			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
			0	10	20	30	40	50	60	70	80	90	100

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

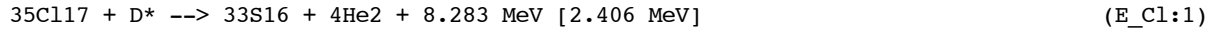
- 32S16 + D* --> 33S16 + 1H1 + 6.417 MeV [00.727 MeV] (E_S:1)
- 33S16 + D* --> 31P15 + 4He2 + 8.566 MeV [2.931 MeV] (E_S:2)
- 33S16 + D* --> 34S16 + 1H1 + 9.193 MeV [3.558 MeV] (E_S:3)
- 33S16 + D* --> 35Cl17 + 15.563 MeV [9.928 MeV] (E_S:4)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
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Fusion Product Chart for S + n D reactions

		Relative Percent											
Z	Abs. Percent	El.	0	10	20	30	40	50	60	70	80	90	100
1	19.553	H	*****										
2	11.487	He	*****										
15	11.487	P	*****										
16	19.553	S	*****										
17	37.921	Cl	*****										

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

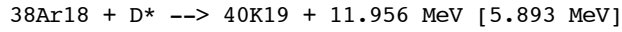


Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Cl + n D reactions

		Relative Percent											
Abs.		0	10	20	30	40	50	60	70	80	90	100	
Z	Percent	El.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
2	50.000	He	*****										
16	50.000	S	*****										
			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
			0	10	20	30	40	50	60	70	80	90	100

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



(E_Ar:1)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
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Fusion Product Chart for Ar + n D reactions

		Relative Percent											
Abs.		0	10	20	30	40	50	60	70	80	90	100	
Z	Percent	El.											
19	100.000	K											
			0	10	20	30	40	50	60	70	80	90	100

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

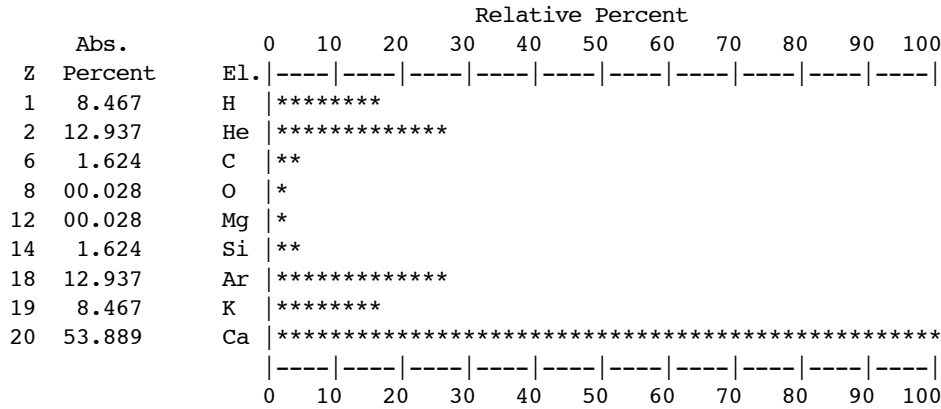
- 39K19 + D* --> 29Si14 + 12C6 + 1.224 MeV [-5.124 MeV] (E_K:1)
- 39K19 + D* --> 40K19 + 1H1 + 5.575 MeV [-0.773 MeV] (E_K:2)

- 40K19 + D* --> 26Mg12 + 16O8 + 00.552 MeV [-5.745 MeV] (E_K:3)
- 40K19 + D* --> 30Si14 + 12C6 + 4.033 MeV [-2.263 MeV] (E_K:4)
- 40K19 + D* --> 38Ar18 + 4He2 + 11.890 MeV [5.593 MeV] (E_K:5)
- 40K19 + D* --> 41K19 + 1H1 + 7.871 MeV [1.574 MeV] (E_K:6)
- 40K19 + D* --> 42Ca20 + 18.148 MeV [11.851 MeV] (E_K:7)

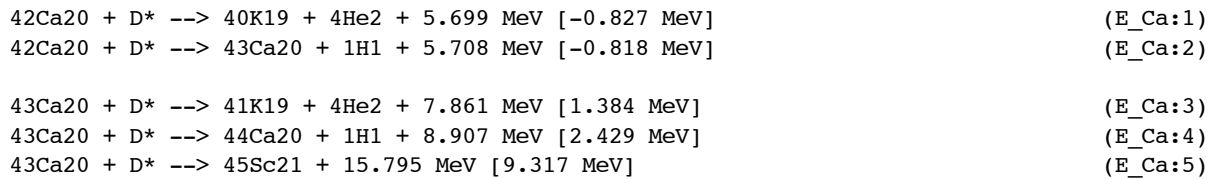
- 41K19 + D* --> 43Ca20 + 15.985 MeV [9.738 MeV] (E_K:8)

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Fusion Product Chart for K + n D reactions



----- Equations follow for Calcium, Ca, element 20 -----

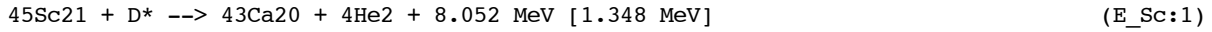


Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
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Fusion Product Chart for Ca + n D reactions

		Relative Percent											
Z	Abs. Percent	El.	0	10	20	30	40	50	60	70	80	90	100
1	16.885	H	*****										
2	14.213	He	*****										
19	14.213	K	*****										
20	16.885	Ca	*****										
21	37.804	Sc	*****										

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



Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
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Fusion Product Chart for Sc + n D reactions

Abs.		Relative Percent											
Z	Percent	El.	0	10	20	30	40	50	60	70	80	90	100
2	15.485	He	*****										
20	15.485	Ca	*****										
22	69.031	Ti	*****										

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

- 46Ti22 + D* --> 47Ti22 + 1H1 + 6.656 MeV [-0.318 MeV] (E_Ti:1)
- 47Ti22 + D* --> 45Sc21 + 4He2 + 6.846 MeV [-0.080 MeV] (E_Ti:2)
- 47Ti22 + D* --> 48Ti22 + 1H1 + 9.402 MeV [2.476 MeV] (E_Ti:3)
- 48Ti22 + D* --> 49Ti22 + 1H1 + 5.918 MeV [-0.962 MeV] (E_Ti:4)
- 48Ti22 + D* --> 50V23 + 13.870 MeV [6.990 MeV] (E_Ti:5)
- 49Ti22 + D* --> 50Ti22 + 1H1 + 8.715 MeV [1.880 MeV] (E_Ti:6)
- 49Ti22 + D* --> 51V23 + 16.778 MeV [9.944 MeV] (E_Ti:7)

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Fusion Product Chart for Ti + n D reactions

Z	Abs. Percent	El.	Relative Percent									
			0	10	20	30	40	50	60	70	80	90
1	22.973	H	*****									
2	4.384	He	*****									
21	4.384	Sc	*****									
22	22.973	Ti	*****									
23	45.284	V	*****									

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

- 50V23 + D* --> 48Ti22 + 4He2 + 9.977 MeV [2.878 MeV] (E_V:1)
- 50V23 + D* --> 51V23 + 1H1 + 8.827 MeV [1.728 MeV] (E_V:2)
- 50V23 + D* --> 52Cr24 + 19.331 MeV [12.232 MeV] (E_V:3)

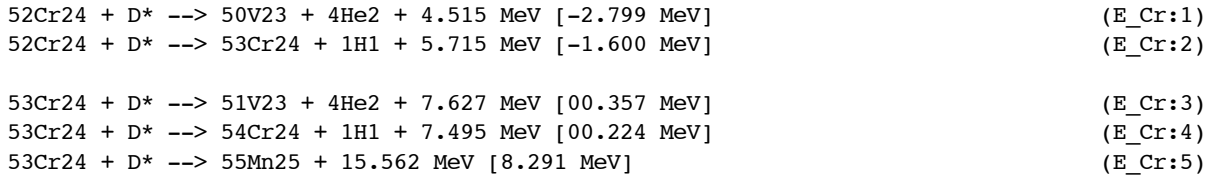
- 51V23 + D* --> 49Ti22 + 4He2 + 7.068 MeV [00.014 MeV] (E_V:4)
- 51V23 + D* --> 53Cr24 + 16.219 MeV [9.165 MeV] (E_V:5)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
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Fusion Product Chart for V + n D reactions

Z	Abs. Percent	El.	Relative Percent																	
			0	10	20	30	40	50	60	70	80	90	100							
1	7.107	H	*****																	
2	13.696	He	*****																	
22	13.696	Ti	*****																	
23	7.107	V	*****																	
24	58.393	Cr	*****																	

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

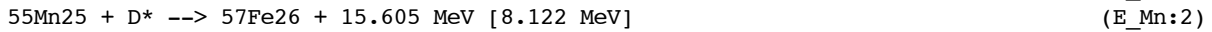
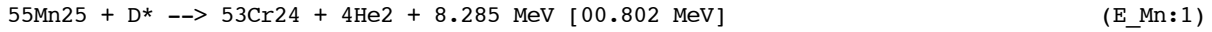


Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
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Fusion Product Chart for Cr + n D reactions

		Relative Percent											
Abs.		0	10	20	30	40	50	60	70	80	90	100	
Z	Percent	El.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
1	15.361	H	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
2	13.605	He	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
23	13.605	V	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
24	15.361	Cr	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
25	42.067	Mn	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
			0	10	20	30	40	50	60	70	80	90	100

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

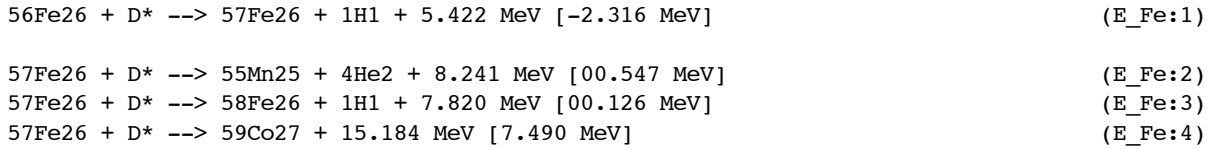


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Fusion Product Chart for Mn + n D reactions

Abs.		Relative Percent											
Z	Percent	El.	0	10	20	30	40	50	60	70	80	90	100
2	18.025	He	*****										
24	18.025	Cr	*****										
26	63.950	Fe	*****										

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

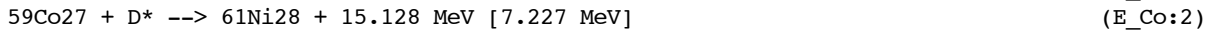
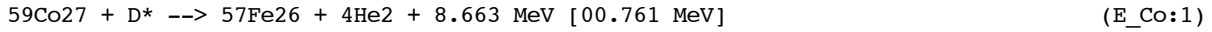


Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Fe + n D reactions

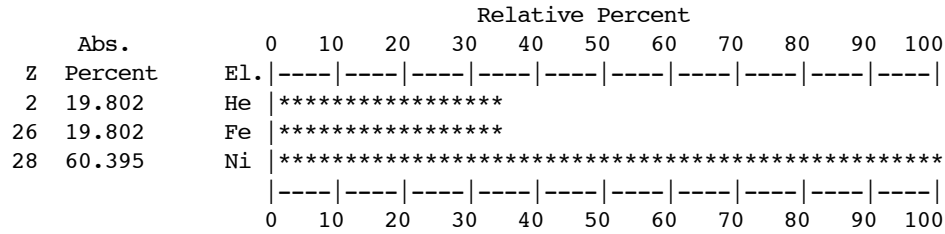
		Relative Percent											
Abs.		0	10	20	30	40	50	60	70	80	90	100	
Z	Percent	El.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
1	16.498	H	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
2	12.421	He	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
25	12.421	Mn	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
26	16.498	Fe	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
27	42.163	Co	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
			0	10	20	30	40	50	60	70	80	90	100

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

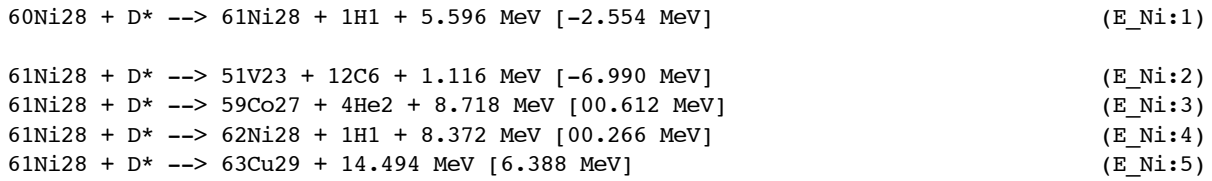


Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Co + n D reactions

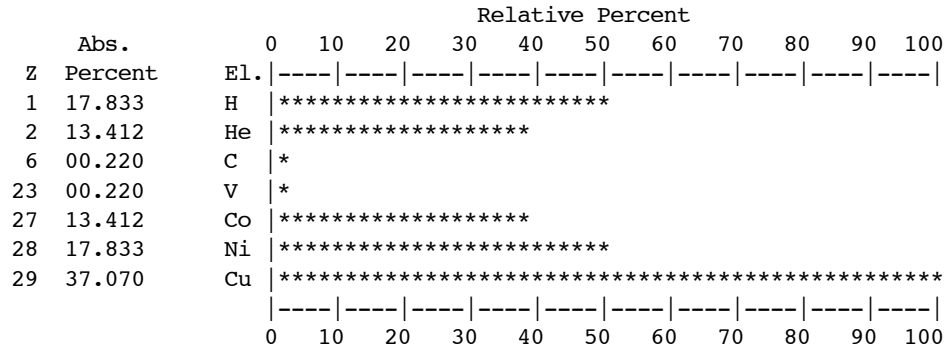


----- Equations follow for Nickel, Ni, element 28 -----

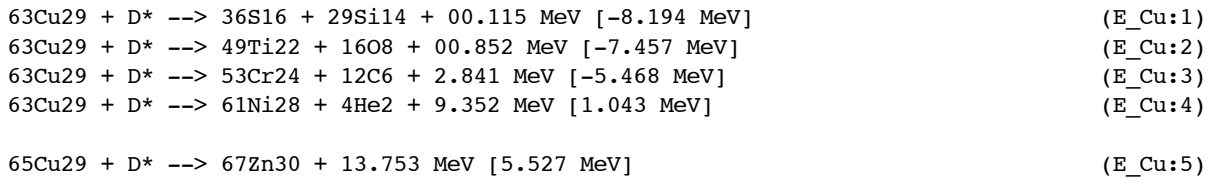


Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Ni + n D reactions

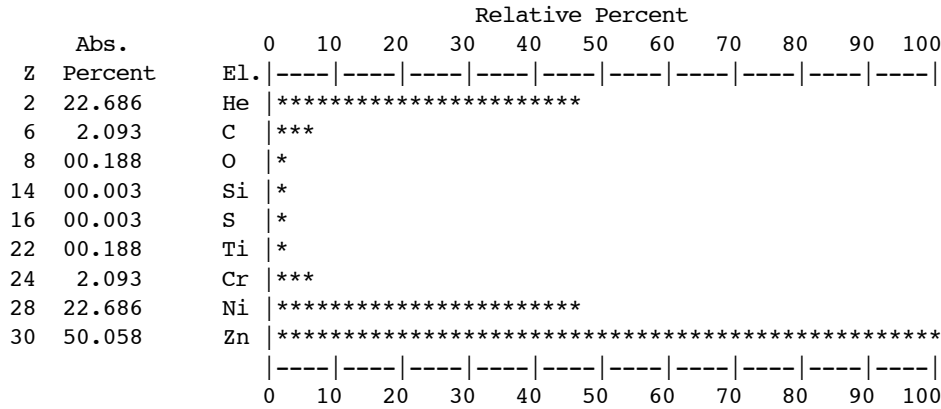


----- Equations follow for Copper, Cu, element 29 -----



Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Cu + n D reactions



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

- 64Zn30 + D* --> 37Cl17 + 29Si14 + 00.789 MeV [-7.763 MeV] (E_Zn:1)
- 64Zn30 + D* --> 50V23 + 16O8 + 1.091 MeV [-7.461 MeV] (E_Zn:2)

- 66Zn30 + D* --> 67Zn30 + 1H1 + 4.828 MeV [-3.639 MeV] (E_Zn:3)

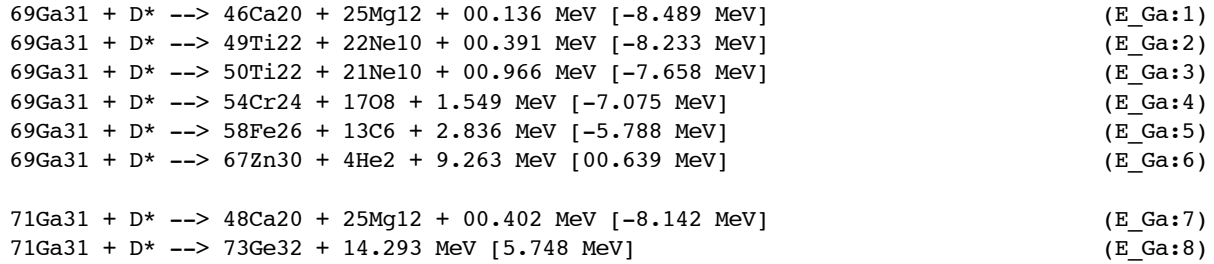
- 67Zn30 + D* --> 54Cr24 + 15N7 + 2.086 MeV [-6.340 MeV] (E_Zn:4)
- 67Zn30 + D* --> 65Cu29 + 4He2 + 10.094 MeV [1.668 MeV] (E_Zn:5)
- 67Zn30 + D* --> 68Zn30 + 1H1 + 7.974 MeV [-0.453 MeV] (E_Zn:6)
- 67Zn30 + D* --> 69Ga31 + 14.583 MeV [6.157 MeV] (E_Zn:7)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Zn + n D reactions

Z	Abs. Percent	El.	Relative Percent									
			0	10	20	30	40	50	60	70	80	90
1	14.396	H	*****									
2	16.926	He	*****									
7	00.723	N	**									
8	00.192	O	*									
14	00.100	Si	*									
17	00.100	Cl	*									
23	00.192	V	*									
24	00.723	Cr	**									
29	16.926	Cu	*****									
30	14.396	Zn	*****									
31	35.327	Ga	*****									

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



Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Ga + n D reactions

Abs.		Relative Percent											
Z	Percent	El.	0	10	20	30	40	50	60	70	80	90	100
2	21.285	He	*****										
6	1.995	C	**										
8	00.595	O	*										
10	00.270	Ne	*										
12	00.046	Mg	*										
20	00.046	Ca	*										
22	00.270	Ti	*										
24	00.595	Cr	*										
26	1.995	Fe	**										
30	21.285	Zn	*****										
32	51.619	Ge	*****										

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

- 70Ge32 + D* --> 49Ti22 + 23Na11 + 00.661 MeV [-8.200 MeV] (E_Ge:1)
- 70Ge32 + D* --> 51V23 + 21Ne10 + 00.506 MeV [-8.355 MeV] (E_Ge:2)
- 70Ge32 + D* --> 55Mn25 + 17O8 + 1.092 MeV [-7.769 MeV] (E_Ge:3)
- 70Ge32 + D* --> 57Fe26 + 15N7 + 2.651 MeV [-6.210 MeV] (E_Ge:4)
- 70Ge32 + D* --> 58Fe26 + 14N7 + 1.863 MeV [-6.999 MeV] (E_Ge:5)
- 70Ge32 + D* --> 59Co27 + 13C6 + 1.676 MeV [-7.185 MeV] (E_Ge:6)

- 72Ge32 + D* --> 73Ge32 + 1H1 + 4.558 MeV [-4.222 MeV] (E_Ge:7)

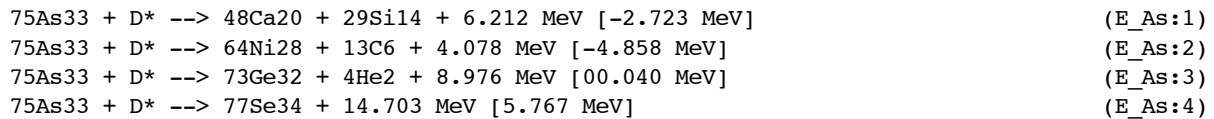
- 73Ge32 + D* --> 48Ca20 + 27Al13 + 3.249 MeV [-5.492 MeV] (E_Ge:8)
- 73Ge32 + D* --> 64Ni28 + 11B5 + 00.270 MeV [-8.472 MeV] (E_Ge:9)
- 73Ge32 + D* --> 71Ga31 + 4He2 + 9.554 MeV [00.812 MeV] (E_Ge:10)
- 73Ge32 + D* --> 74Ge32 + 1H1 + 7.972 MeV [-0.770 MeV] (E_Ge:11)
- 73Ge32 + D* --> 75As33 + 14.871 MeV [6.129 MeV] (E_Ge:12)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Ge + n D reactions

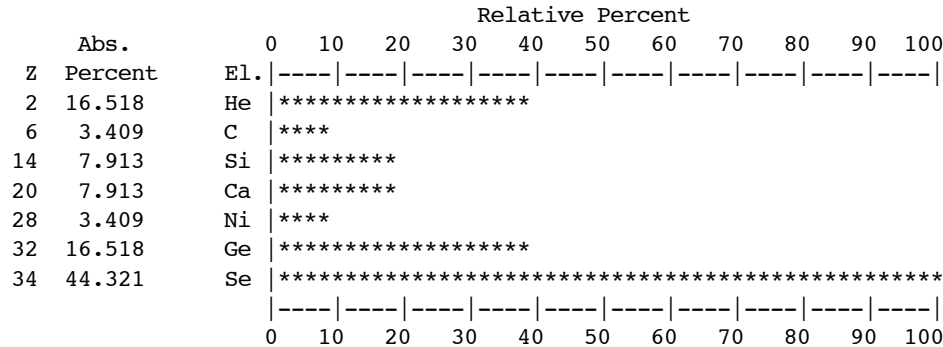
Abs.		Relative Percent											
Z	Percent	El.	0	10	20	30	40	50	60	70	80	90	100
1	13.510	H	*****										
2	14.655	He	*****										
5	00.012	B	*										
6	00.439	C	*										
7	1.641	N	***										
8	00.186	O	*										
10	00.040	Ne	*										
11	00.068	Na	*										
13	1.695	Al	***										
20	1.695	Ca	***										
22	00.068	Ti	*										
23	00.040	V	*										
25	00.186	Mn	*										
26	1.641	Fe	***										
27	00.439	Co	*										
28	00.012	Ni	*										
31	14.655	Ga	*****										
32	13.510	Ge	*****										
33	35.507	As	*****										

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



Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for As + n D reactions



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

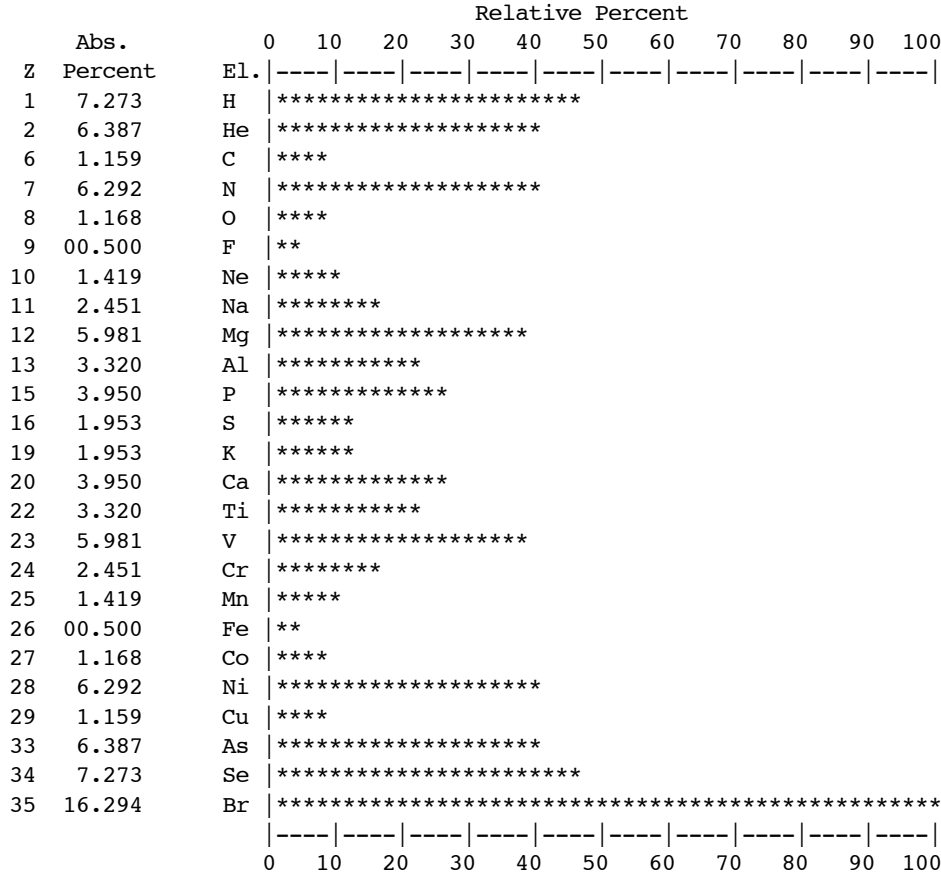
- 74Se34 + D* --> 40K19 + 36S16 + 5.122 MeV [-4.125 MeV] (E_Se:1)
- 74Se34 + D* --> 49Ti22 + 27Al13 + 6.678 MeV [-2.568 MeV] (E_Se:2)
- 74Se34 + D* --> 50V23 + 26Mg12 + 6.359 MeV [-2.888 MeV] (E_Se:3)
- 74Se34 + D* --> 51V23 + 25Mg12 + 6.317 MeV [-2.930 MeV] (E_Se:4)
- 74Se34 + D* --> 53Cr24 + 23Na11 + 5.738 MeV [-3.509 MeV] (E_Se:5)
- 74Se34 + D* --> 55Mn25 + 21Ne10 + 4.365 MeV [-4.882 MeV] (E_Se:6)
- 74Se34 + D* --> 57Fe26 + 19F9 + 2.591 MeV [-6.656 MeV] (E_Se:7)
- 74Se34 + D* --> 59Co27 + 17O8 + 3.960 MeV [-5.287 MeV] (E_Se:8)
- 74Se34 + D* --> 61Ni28 + 15N7 + 5.042 MeV [-4.204 MeV] (E_Se:9)
- 74Se34 + D* --> 62Ni28 + 14N7 + 4.806 MeV [-4.441 MeV] (E_Se:10)
- 74Se34 + D* --> 63Cu29 + 13C6 + 3.378 MeV [-5.869 MeV] (E_Se:11)

- 76Se34 + D* --> 64Ni28 + 14N7 + 2.120 MeV [-7.048 MeV] (E_Se:12)
- 76Se34 + D* --> 65Cu29 + 13C6 + 2.022 MeV [-7.145 MeV] (E_Se:13)
- 76Se34 + D* --> 77Se34 + 1H1 + 5.194 MeV [-3.973 MeV] (E_Se:14)

- 77Se34 + D* --> 48Ca20 + 31P15 + 7.191 MeV [-1.937 MeV] (E_Se:15)
- 77Se34 + D* --> 64Ni28 + 15N7 + 5.534 MeV [-3.594 MeV] (E_Se:16)
- 77Se34 + D* --> 75As33 + 4He2 + 9.144 MeV [00.015 MeV] (E_Se:17)
- 77Se34 + D* --> 78Se34 + 1H1 + 8.273 MeV [-0.855 MeV] (E_Se:18)
- 77Se34 + D* --> 79Br35 + 14.605 MeV [5.476 MeV] (E_Se:19)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Se + n D reactions



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

- 79Br35 + D* --> 48Ca20 + 33S16 + 7.867 MeV [-1.451 MeV] (E_Br:1)
- 79Br35 + D* --> 64Ni28 + 17O8 + 4.975 MeV [-4.343 MeV] (E_Br:2)
- 79Br35 + D* --> 68Zn30 + 13C6 + 3.949 MeV [-5.369 MeV] (E_Br:3)
- 79Br35 + D* --> 77Se34 + 4He2 + 9.242 MeV [-0.077 MeV] (E_Br:4)

- 81Br35 + D* --> 70Zn30 + 13C6 + 1.601 MeV [-7.643 MeV] (E_Br:5)
- 81Br35 + D* --> 83Kr36 + 15.143 MeV [5.899 MeV] (E_Br:6)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Br + n D reactions

Z	Abs. Percent	El.	Relative Percent									
			0	10	20	30	40	50	60	70	80	90
2	13.920	He	*****									
6	2.966	C	****									
8	4.034	O	*****									
16	10.087	S	*****									
20	10.087	Ca	*****									
28	4.034	Ni	*****									
30	2.966	Zn	****									
34	13.920	Se	*****									
36	37.983	Kr	*****									

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

- 78Kr36 + D* --> 40Ar18 + 40K19 + 7.531 MeV [-2.094 MeV] (E_Kr:1)
- 78Kr36 + D* --> 40K19 + 40Ar18 + 7.531 MeV [-2.094 MeV] (E_Kr:2)
- 78Kr36 + D* --> 43Ca20 + 37Cl17 + 9.126 MeV [-0.499 MeV] (E_Kr:3)
- 78Kr36 + D* --> 49Ti22 + 31P15 + 11.956 MeV [2.331 MeV] (E_Kr:4)
- 78Kr36 + D* --> 50V23 + 30Si14 + 12.610 MeV [2.986 MeV] (E_Kr:5)
- 78Kr36 + D* --> 51V23 + 29Si14 + 13.052 MeV [3.428 MeV] (E_Kr:6)
- 78Kr36 + D* --> 53Cr24 + 27Al13 + 11.437 MeV [1.813 MeV] (E_Kr:7)
- 78Kr36 + D* --> 55Mn25 + 25Mg12 + 9.859 MeV [0.235 MeV] (E_Kr:8)
- 78Kr36 + D* --> 57Fe26 + 23Na11 + 8.666 MeV [-0.959 MeV] (E_Kr:9)
- 78Kr36 + D* --> 59Co27 + 21Ne10 + 6.916 MeV [-2.709 MeV] (E_Kr:10)
- 78Kr36 + D* --> 61Ni28 + 19F9 + 4.664 MeV [-4.961 MeV] (E_Kr:11)
- 78Kr36 + D* --> 63Cu29 + 17O8 + 5.344 MeV [-4.280 MeV] (E_Kr:12)
- 78Kr36 + D* --> 66Zn30 + 14N7 + 4.992 MeV [-4.633 MeV] (E_Kr:13)

- 80Kr36 + D* --> 65Cu29 + 17O8 + 3.316 MeV [-6.230 MeV] (E_Kr:14)
- 80Kr36 + D* --> 67Zn30 + 15N7 + 3.022 MeV [-6.524 MeV] (E_Kr:15)
- 80Kr36 + D* --> 68Zn30 + 14N7 + 2.387 MeV [-7.159 MeV] (E_Kr:16)
- 80Kr36 + D* --> 69Ga31 + 13C6 + 1.446 MeV [-8.100 MeV] (E_Kr:17)

- 82Kr36 + D* --> 83Kr36 + 1H1 + 5.239 MeV [-4.231 MeV] (E_Kr:18)

- 83Kr36 + D* --> 48Ca20 + 37Cl17 + 9.130 MeV [-0.303 MeV] (E_Kr:19)
- 83Kr36 + D* --> 70Zn30 + 15N7 + 2.617 MeV [-6.815 MeV] (E_Kr:20)
- 83Kr36 + D* --> 81Br35 + 4He2 + 8.704 MeV [-0.728 MeV] (E_Kr:21)
- 83Kr36 + D* --> 84Kr36 + 1H1 + 8.296 MeV [-1.136 MeV] (E_Kr:22)
- 83Kr36 + D* --> 85Rb37 + 15.321 MeV [5.889 MeV] (E_Kr:23)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Rb + n D reactions

		Relative Percent											
Abs.		0	10	20	30	40	50	60	70	80	90	100	
Z	Percent	El.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
2	18.019	He	*****										
6	00.397	C	*										
8	00.446	O	*										
30	00.446	Zn	*										
32	00.397	Ge	*										
36	18.019	Kr	*****										
38	62.275	Sr	*****										
			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
			0	10	20	30	40	50	60	70	80	90	100

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

- 84Sr38 + D* --> 46Ca20 + 40K19 + 9.162 MeV [-0.755 MeV] (E_Sr:1)
- 84Sr38 + D* --> 49Ti22 + 37Cl17 + 12.812 MeV [2.895 MeV] (E_Sr:2)
- 84Sr38 + D* --> 50V23 + 36S16 + 12.378 MeV [2.460 MeV] (E_Sr:3)
- 84Sr38 + D* --> 65Cu29 + 21Ne10 + 5.487 MeV [-4.430 MeV] (E_Sr:4)
- 84Sr38 + D* --> 67Zn30 + 19F9 + 1.860 MeV [-8.058 MeV] (E_Sr:5)
- 84Sr38 + D* --> 69Ga31 + 17O8 + 2.628 MeV [-7.289 MeV] (E_Sr:6)
- 84Sr38 + D* --> 72Ge32 + 14N7 + 2.214 MeV [-7.703 MeV] (E_Sr:7)

- 86Sr38 + D* --> 48Ca20 + 40K19 + 6.361 MeV [-3.480 MeV] (E_Sr:8)
- 86Sr38 + D* --> 87Sr38 + 1H1 + 6.204 MeV [-3.638 MeV] (E_Sr:9)

- 87Sr38 + D* --> 48Ca20 + 41K19 + 8.029 MeV [-1.776 MeV] (E_Sr:10)
- 87Sr38 + D* --> 74Ge32 + 15N7 + 1.576 MeV [-8.229 MeV] (E_Sr:11)
- 87Sr38 + D* --> 85Rb37 + 4He2 + 7.998 MeV [-1.807 MeV] (E_Sr:12)
- 87Sr38 + D* --> 88Sr38 + 1H1 + 8.888 MeV [-0.917 MeV] (E_Sr:13)
- 87Sr38 + D* --> 89Y39 + 15.957 MeV [6.152 MeV] (E_Sr:14)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Sr + n D reactions

Z	Abs. Percent	El.	Relative Percent																	
			0	10	20	30	40	50	60	70	80	90	100							
1	6.876	H	*****																	
2	3.753	He	*****																	
7	00.427	N	**																	
8	00.396	O	**																	
9	00.198	F	*																	
10	1.727	Ne	*****																	
16	8.786	S	*****																	
17	9.414	Cl	*****																	
19	10.953	K	*****																	
20	10.953	Ca	*****																	
22	9.414	Ti	*****																	
23	8.786	V	*****																	
29	1.727	Cu	*****																	
30	00.198	Zn	*																	
31	00.396	Ga	**																	
32	00.427	Ge	**																	
37	3.753	Rb	*****																	
38	6.876	Sr	*****																	
39	14.940	Y	*****																	

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

- 89Y39 + D* --> 48Ca20 + 43Ca20 + 8.057 MeV [-1.932 MeV] (E_Y:1)
- 89Y39 + D* --> 70Zn30 + 21Ne10 + 00.730 MeV [-9.258 MeV] (E_Y:2)
- 89Y39 + D* --> 87Sr38 + 4He2 + 7.889 MeV [-2.099 MeV] (E_Y:3)
- 89Y39 + D* --> 91Zr40 + 13.324 MeV [3.336 MeV] (E_Y:4)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Y + n D reactions

		Relative Percent											
Abs.	Z Percent	El.	0	10	20	30	40	50	60	70	80	90	100
2	14.378	He	*****										
10	00.123	Ne	*										
20	29.988	Ca	*****										
30	00.123	Zn	*										
38	14.378	Sr	*****										
40	41.010	Zr	*****										

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

- 90Zr40 + D* --> 71Ga31 + 21Ne10 + 00.240 MeV [-9.967 MeV] (E_Zr:1)
- 90Zr40 + D* --> 91Zr40 + 1H1 + 4.970 MeV [-5.238 MeV] (E_Zr:2)

- 91Zr40 + D* --> 48Ca20 + 45Sc21 + 10.527 MeV [00.357 MeV] (E_Zr:3)
- 91Zr40 + D* --> 70Zn30 + 23Na11 + 4.340 MeV [-5.831 MeV] (E_Zr:4)
- 91Zr40 + D* --> 71Ga31 + 22Ne10 + 3.410 MeV [-6.760 MeV] (E_Zr:5)
- 91Zr40 + D* --> 74Ge32 + 19F9 + 00.155 MeV [-10.016 MeV] (E_Zr:6)
- 91Zr40 + D* --> 78Se34 + 15N7 + 2.170 MeV [-8.001 MeV] (E_Zr:7)
- 91Zr40 + D* --> 81Br35 + 12C6 + 3.220 MeV [-6.951 MeV] (E_Zr:8)
- 91Zr40 + D* --> 89Y39 + 4He2 + 10.522 MeV [00.351 MeV] (E_Zr:9)
- 91Zr40 + D* --> 92Zr40 + 1H1 + 6.410 MeV [-3.760 MeV] (E_Zr:10)
- 91Zr40 + D* --> 93Nb41 + 12.454 MeV [2.283 MeV] (E_Zr:11)

- 94Zr40 + D* --> 82Se34 + 14N7 + 00.599 MeV [-9.464 MeV] (E_Zr:12)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Zr + n D reactions

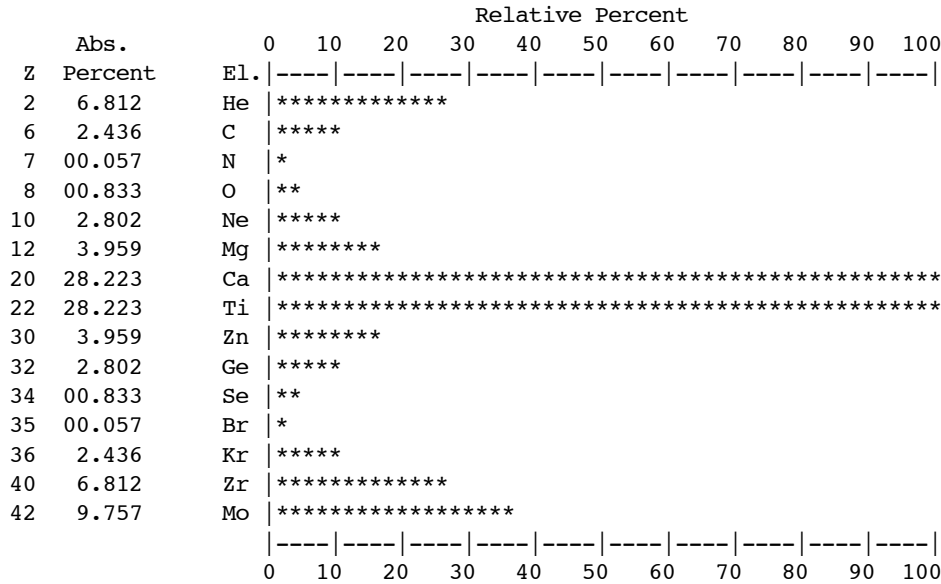
Z	Abs.	El.	Relative Percent									
			0	10	20	30	40	50	60	70	80	90
1	7.988	H	*****									
2	13.479	He	*****									
6	1.262	C	****									
7	00.618	N	**									
9	00.003	F	*									
10	1.423	Ne	****									
11	2.293	Na	*****									
20	13.492	Ca	*****									
21	13.492	Sc	*****									
30	2.293	Zn	*****									
31	1.423	Ga	****									
32	00.003	Ge	*									
34	00.618	Se	**									
35	1.262	Br	****									
39	13.479	Y	*****									
40	7.988	Zr	*****									
41	18.882	Nb	*****									

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

- 93Nb41 + D* --> 48Ca20 + 47Ti22 + 15.074 MeV [4.723 MeV] (E_Nb:1)
- 93Nb41 + D* --> 49Ti22 + 46Ca20 + 17.621 MeV [7.270 MeV] (E_Nb:2)
- 93Nb41 + D* --> 70Zn30 + 25Mg12 + 8.685 MeV [-1.666 MeV] (E_Nb:3)
- 93Nb41 + D* --> 73Ge32 + 22Ne10 + 5.250 MeV [-5.102 MeV] (E_Nb:4)
- 93Nb41 + D* --> 74Ge32 + 21Ne10 + 5.082 MeV [-5.270 MeV] (E_Nb:5)
- 93Nb41 + D* --> 77Se34 + 18O8 + 1.309 MeV [-9.043 MeV] (E_Nb:6)
- 93Nb41 + D* --> 78Se34 + 17O8 + 3.762 MeV [-6.589 MeV] (E_Nb:7)
- 93Nb41 + D* --> 81Br35 + 14N7 + 1.039 MeV [-9.312 MeV] (E_Nb:8)
- 93Nb41 + D* --> 82Kr36 + 13C6 + 3.392 MeV [-6.959 MeV] (E_Nb:9)
- 93Nb41 + D* --> 83Kr36 + 12C6 + 5.909 MeV [-4.442 MeV] (E_Nb:10)
- 93Nb41 + D* --> 91Zr40 + 4He2 + 11.393 MeV [1.042 MeV] (E_Nb:11)
- 93Nb41 + D* --> 95Mo42 + 13.635 MeV [3.284 MeV] (E_Nb:12)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Nb + n D reactions



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

- 92Mo42 + D* --> 49Ti22 + 45Sc21 + 15.957 MeV [5.316 MeV] (E_Mo:1)
- 92Mo42 + D* --> 50V23 + 44Ca20 + 17.021 MeV [6.380 MeV] (E_Mo:2)
- 92Mo42 + D* --> 51V23 + 43Ca20 + 16.941 MeV [6.299 MeV] (E_Mo:3)
- 92Mo42 + D* --> 53Cr24 + 41K19 + 17.175 MeV [6.533 MeV] (E_Mo:4)
- 92Mo42 + D* --> 54Cr24 + 40K19 + 16.798 MeV [6.157 MeV] (E_Mo:5)
- 92Mo42 + D* --> 57Fe26 + 37Cl17 + 18.272 MeV [7.631 MeV] (E_Mo:6)
- 92Mo42 + D* --> 65Cu29 + 29Si14 + 15.489 MeV [4.848 MeV] (E_Mo:7)
- 92Mo42 + D* --> 67Zn30 + 27Al13 + 11.408 MeV [00.767 MeV] (E_Mo:8)
- 92Mo42 + D* --> 69Ga31 + 25Mg12 + 8.851 MeV [-1.790 MeV] (E_Mo:9)
- 92Mo42 + D* --> 80Kr36 + 14N7 + 1.360 MeV [-9.281 MeV] (E_Mo:10)

- 94Mo42 + D* --> 50V23 + 46Ca20 + 17.083 MeV [6.516 MeV] (E_Mo:11)
- 94Mo42 + D* --> 71Ga31 + 25Mg12 + 8.059 MeV [-2.508 MeV] (E_Mo:12)
- 94Mo42 + D* --> 73Ge32 + 23Na11 + 5.553 MeV [-5.013 MeV] (E_Mo:13)
- 94Mo42 + D* --> 75As33 + 21Ne10 + 3.490 MeV [-7.077 MeV] (E_Mo:14)
- 94Mo42 + D* --> 77Se34 + 19F9 + 00.813 MeV [-9.754 MeV] (E_Mo:15)
- 94Mo42 + D* --> 79Br35 + 17O8 + 1.603 MeV [-8.963 MeV] (E_Mo:16)
- 94Mo42 + D* --> 82Kr36 + 14N7 + 2.452 MeV [-8.115 MeV] (E_Mo:17)
- 94Mo42 + D* --> 95Mo42 + 1H1 + 5.145 MeV [-5.422 MeV] (E_Mo:18)

- 95Mo42 + D* --> 51V23 + 46Ca20 + 20.765 MeV [10.234 MeV] (E_Mo:19)
- 95Mo42 + D* --> 70Zn30 + 27Al13 + 12.190 MeV [1.659 MeV] (E_Mo:20)
- 95Mo42 + D* --> 71Ga31 + 26Mg12 + 11.783 MeV [1.253 MeV] (E_Mo:21)
- 95Mo42 + D* --> 74Ge32 + 23Na11 + 8.381 MeV [-2.150 MeV] (E_Mo:22)
- 95Mo42 + D* --> 75As33 + 22Ne10 + 6.485 MeV [-4.045 MeV] (E_Mo:23)
- 95Mo42 + D* --> 78Se34 + 19F9 + 3.942 MeV [-6.589 MeV] (E_Mo:24)
- 95Mo42 + D* --> 79Br35 + 18O8 + 2.278 MeV [-8.252 MeV] (E_Mo:25)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

95Mo42 + D* --> 81Br35 + 16O8 + 8.140 MeV [-2.390 MeV] (E_Mo:26)
95Mo42 + D* --> 82Kr36 + 15N7 + 5.916 MeV [-4.614 MeV] (E_Mo:27)
95Mo42 + D* --> 83Kr36 + 14N7 + 2.547 MeV [-7.984 MeV] (E_Mo:28)
95Mo42 + D* --> 85Rb37 + 12C6 + 7.596 MeV [-2.935 MeV] (E_Mo:29)
95Mo42 + D* --> 86Sr38 + 11B5 + 1.284 MeV [-9.247 MeV] (E_Mo:30)
95Mo42 + D* --> 93Nb41 + 4He2 + 10.212 MeV [-0.319 MeV] (E_Mo:31)
95Mo42 + D* --> 96Mo42 + 1H1 + 6.930 MeV [-3.601 MeV] (E_Mo:32)

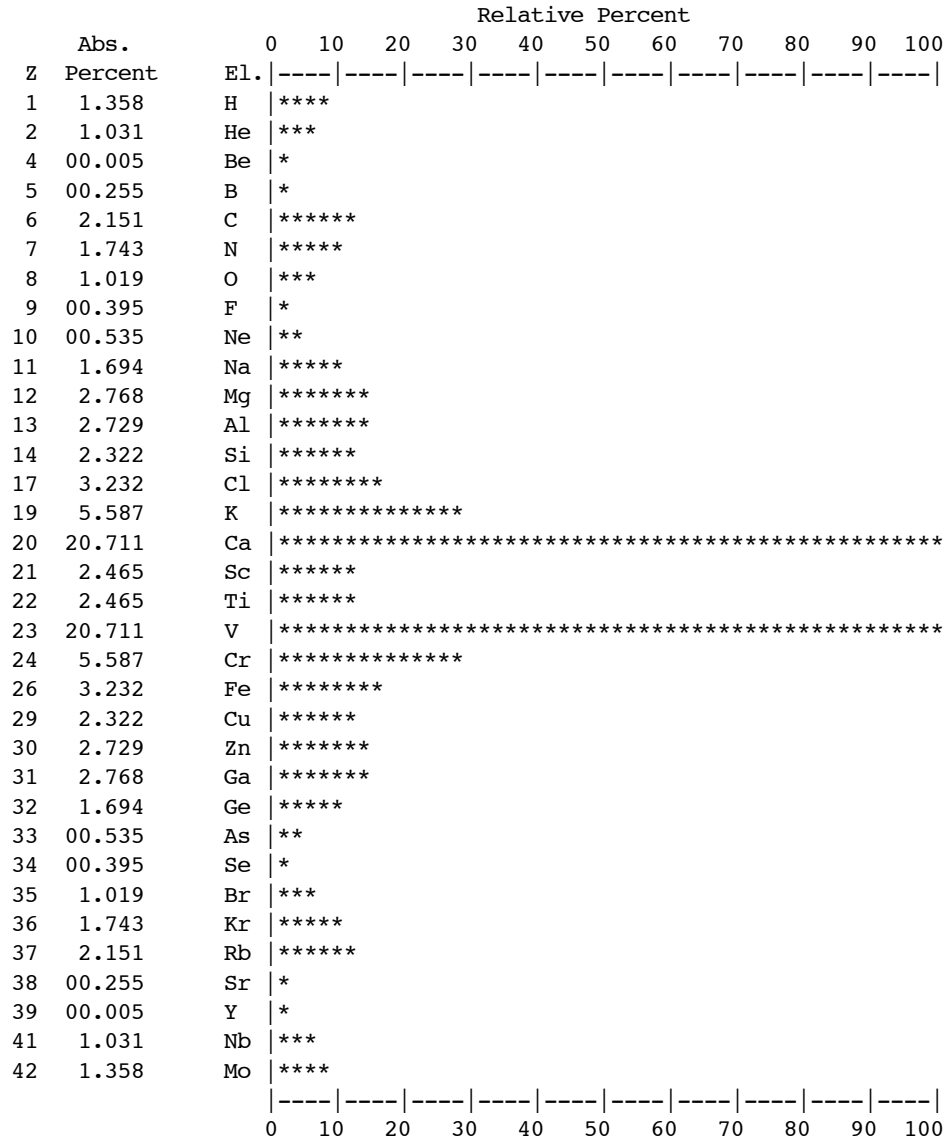
96Mo42 + D* --> 50V23 + 48Ca20 + 17.781 MeV [7.286 MeV] (E_Mo:33)
96Mo42 + D* --> 81Br35 + 17O8 + 3.129 MeV [-7.366 MeV] (E_Mo:34)
96Mo42 + D* --> 83Kr36 + 15N7 + 4.225 MeV [-6.269 MeV] (E_Mo:35)
96Mo42 + D* --> 84Kr36 + 14N7 + 3.913 MeV [-6.582 MeV] (E_Mo:36)
96Mo42 + D* --> 85Rb37 + 13C6 + 3.388 MeV [-7.107 MeV] (E_Mo:37)
96Mo42 + D* --> 87Sr38 + 11B5 + 00.558 MeV [-9.937 MeV] (E_Mo:38)
96Mo42 + D* --> 88Sr38 + 10B5 + 00.216 MeV [-10.278 MeV] (E_Mo:39)
96Mo42 + D* --> 89Y39 + 9Be4 + 00.699 MeV [-9.795 MeV] (E_Mo:40)
96Mo42 + D* --> 97Mo42 + 1H1 + 4.597 MeV [-5.898 MeV] (E_Mo:41)

97Mo42 + D* --> 51V23 + 48Ca20 + 22.011 MeV [11.552 MeV] (E_Mo:42)
97Mo42 + D* --> 76Ge32 + 23Na11 + 8.338 MeV [-2.121 MeV] (E_Mo:43)
97Mo42 + D* --> 80Se34 + 19F9 + 4.843 MeV [-5.616 MeV] (E_Mo:44)
97Mo42 + D* --> 81Br35 + 18O8 + 4.352 MeV [-6.107 MeV] (E_Mo:45)
97Mo42 + D* --> 84Kr36 + 15N7 + 7.925 MeV [-2.534 MeV] (E_Mo:46)
97Mo42 + D* --> 87Rb37 + 12C6 + 10.193 MeV [-0.266 MeV] (E_Mo:47)
97Mo42 + D* --> 88Sr38 + 11B5 + 4.849 MeV [-5.610 MeV] (E_Mo:48)
97Mo42 + D* --> 98Mo42 + 1H1 + 6.418 MeV [-4.041 MeV] (E_Mo:49)

98Mo42 + D* --> 86Kr36 + 14N7 + 5.426 MeV [-4.998 MeV] (E_Mo:50)
98Mo42 + D* --> 87Rb37 + 13C6 + 6.497 MeV [-3.927 MeV] (E_Mo:51)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Mo + n D reactions



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

- 96Ru44 + D* --> 50V23 + 48Ti22 + 24.773 MeV [13.779 MeV] (E_Ru:1)
- 96Ru44 + D* --> 51V23 + 47Ti22 + 24.197 MeV [13.203 MeV] (E_Ru:2)
- 96Ru44 + D* --> 53Cr24 + 45Sc21 + 23.416 MeV [12.422 MeV] (E_Ru:3)
- 96Ru44 + D* --> 55Mn25 + 43Ca20 + 23.183 MeV [12.189 MeV] (E_Ru:4)
- 96Ru44 + D* --> 57Fe26 + 41K19 + 22.803 MeV [11.809 MeV] (E_Ru:5)
- 96Ru44 + D* --> 58Fe26 + 40K19 + 22.752 MeV [11.758 MeV] (E_Ru:6)
- 96Ru44 + D* --> 61Ni28 + 37Cl17 + 23.046 MeV [12.052 MeV] (E_Ru:7)
- 96Ru44 + D* --> 65Cu29 + 33S16 + 20.913 MeV [9.919 MeV] (E_Ru:8)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

96Ru44 + D* --> 67Zn30 + 31P15 + 19.385 MeV [8.391 MeV]	(E_Ru:9)
96Ru44 + D* --> 69Ga31 + 29Si14 + 18.286 MeV [7.292 MeV]	(E_Ru:10)
96Ru44 + D* --> 84Sr38 + 14N7 + 4.844 MeV [-6.150 MeV]	(E_Ru:11)
98Ru44 + D* --> 50Ti22 + 50V23 + 25.559 MeV [14.639 MeV]	(E_Ru:12)
98Ru44 + D* --> 50V23 + 50Ti22 + 25.559 MeV [14.639 MeV]	(E_Ru:13)
98Ru44 + D* --> 51V23 + 49Ti22 + 25.671 MeV [14.751 MeV]	(E_Ru:14)
98Ru44 + D* --> 71Ga31 + 29Si14 + 16.947 MeV [6.026 MeV]	(E_Ru:15)
98Ru44 + D* --> 73Ge32 + 27Al13 + 13.405 MeV [2.485 MeV]	(E_Ru:16)
98Ru44 + D* --> 75As33 + 25Mg12 + 11.136 MeV [00.216 MeV]	(E_Ru:17)
98Ru44 + D* --> 77Se34 + 23Na11 + 9.041 MeV [-1.880 MeV]	(E_Ru:18)
98Ru44 + D* --> 79Br35 + 21Ne10 + 6.712 MeV [-4.209 MeV]	(E_Ru:19)
98Ru44 + D* --> 86Sr38 + 14N7 + 6.571 MeV [-4.349 MeV]	(E_Ru:20)
98Ru44 + D* --> 90Zr40 + 10B5 + 1.628 MeV [-9.293 MeV]	(E_Ru:21)
98Ru44 + D* --> 99Ru44 + 1H1 + 5.239 MeV [-5.681 MeV]	(E_Ru:22)
99Ru44 + D* --> 51V23 + 50Ti22 + 29.147 MeV [18.263 MeV]	(E_Ru:23)
99Ru44 + D* --> 55Mn25 + 46Ca20 + 26.364 MeV [15.480 MeV]	(E_Ru:24)
99Ru44 + D* --> 64Ni28 + 37Cl17 + 24.380 MeV [13.495 MeV]	(E_Ru:25)
99Ru44 + D* --> 65Cu29 + 36S16 + 23.446 MeV [12.562 MeV]	(E_Ru:26)
99Ru44 + D* --> 70Zn30 + 31P15 + 19.524 MeV [8.640 MeV]	(E_Ru:27)
99Ru44 + D* --> 71Ga31 + 30Si14 + 20.092 MeV [9.208 MeV]	(E_Ru:28)
99Ru44 + D* --> 74Ge32 + 27Al13 + 16.138 MeV [5.254 MeV]	(E_Ru:29)
99Ru44 + D* --> 75As33 + 26Mg12 + 14.766 MeV [3.882 MeV]	(E_Ru:30)
99Ru44 + D* --> 78Se34 + 23Na11 + 12.075 MeV [1.190 MeV]	(E_Ru:31)
99Ru44 + D* --> 79Br35 + 22Ne10 + 9.612 MeV [-1.272 MeV]	(E_Ru:32)
99Ru44 + D* --> 81Br35 + 20Ne10 + 10.536 MeV [-0.349 MeV]	(E_Ru:33)
99Ru44 + D* --> 82Kr36 + 19F9 + 7.596 MeV [-3.289 MeV]	(E_Ru:34)
99Ru44 + D* --> 85Rb37 + 16O8 + 12.423 MeV [1.539 MeV]	(E_Ru:35)
99Ru44 + D* --> 86Sr38 + 15N7 + 9.941 MeV [-0.943 MeV]	(E_Ru:36)
99Ru44 + D* --> 87Sr38 + 14N7 + 7.536 MeV [-3.348 MeV]	(E_Ru:37)
99Ru44 + D* --> 89Y39 + 12C6 + 13.220 MeV [2.336 MeV]	(E_Ru:38)
99Ru44 + D* --> 90Zr40 + 11B5 + 5.618 MeV [-5.266 MeV]	(E_Ru:39)
99Ru44 + D* --> 91Zr40 + 10B5 + 1.358 MeV [-9.526 MeV]	(E_Ru:40)
99Ru44 + D* --> 100Ru44 + 1H1 + 7.449 MeV [-3.435 MeV]	(E_Ru:41)
100Ru44 + D* --> 81Br35 + 21Ne10 + 7.623 MeV [-3.225 MeV]	(E_Ru:42)
100Ru44 + D* --> 83Kr36 + 19F9 + 5.386 MeV [-5.463 MeV]	(E_Ru:43)
100Ru44 + D* --> 85Rb37 + 17O8 + 6.893 MeV [-3.956 MeV]	(E_Ru:44)
100Ru44 + D* --> 87Sr38 + 15N7 + 8.696 MeV [-2.153 MeV]	(E_Ru:45)
100Ru44 + D* --> 88Sr38 + 14N7 + 8.975 MeV [-1.873 MeV]	(E_Ru:46)
100Ru44 + D* --> 89Y39 + 13C6 + 8.493 MeV [-2.355 MeV]	(E_Ru:47)
100Ru44 + D* --> 91Zr40 + 11B5 + 3.139 MeV [-7.709 MeV]	(E_Ru:48)
100Ru44 + D* --> 92Zr40 + 10B5 + 00.320 MeV [-10.529 MeV]	(E_Ru:49)
100Ru44 + D* --> 101Ru44 + 1H1 + 4.577 MeV [-6.271 MeV]	(E_Ru:50)
101Ru44 + D* --> 55Mn25 + 48Ca20 + 27.111 MeV [16.297 MeV]	(E_Ru:51)
101Ru44 + D* --> 76Ge32 + 27Al13 + 15.596 MeV [4.782 MeV]	(E_Ru:52)
101Ru44 + D* --> 80Se34 + 23Na11 + 12.476 MeV [1.662 MeV]	(E_Ru:53)
101Ru44 + D* --> 81Br35 + 22Ne10 + 11.186 MeV [00.372 MeV]	(E_Ru:54)
101Ru44 + D* --> 84Kr36 + 19F9 + 9.104 MeV [-1.709 MeV]	(E_Ru:55)
101Ru44 + D* --> 85Rb37 + 18O8 + 8.135 MeV [-2.678 MeV]	(E_Ru:56)
101Ru44 + D* --> 87Rb37 + 16O8 + 14.521 MeV [3.707 MeV]	(E_Ru:57)
101Ru44 + D* --> 88Sr38 + 15N7 + 13.006 MeV [2.193 MeV]	(E_Ru:58)

Report E - Energetically Feasible Aneutronic $X + n D^* \rightarrow Y + Z$ Reactions, $n = 1$ to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

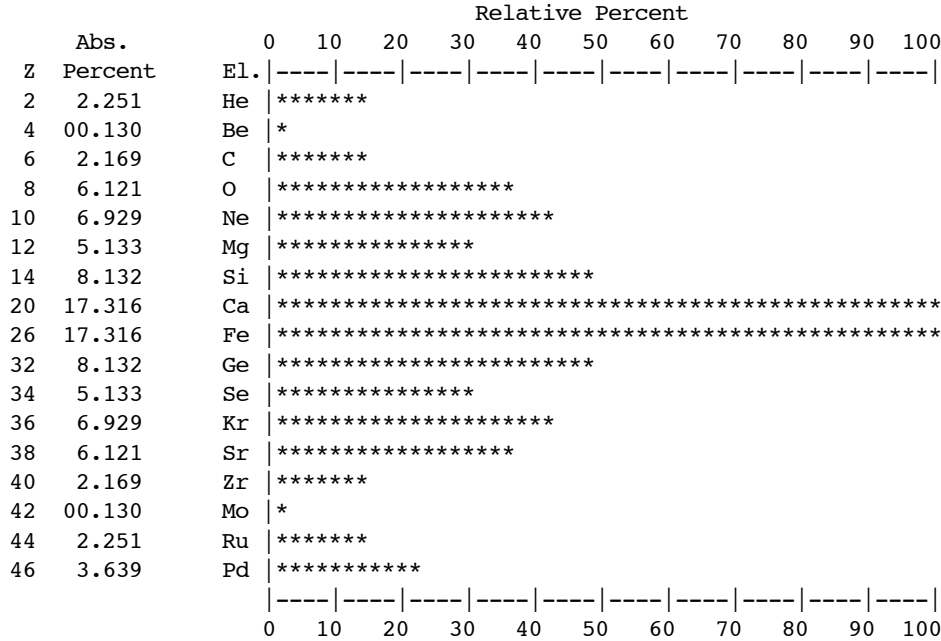
101Ru44 + D* --> 92Zr40 + 11B5 + 4.972 MeV [-5.841 MeV] (E_Ru:59)
101Ru44 + D* --> 102Ru44 + 1H1 + 6.995 MeV [-3.818 MeV] (E_Ru:60)
101Ru44 + D* --> 103Rh45 + 13.208 MeV [2.395 MeV] (E_Ru:61)
102Ru44 + D* --> 87Rb37 + 17O8 + 9.444 MeV [-1.334 MeV] (E_Ru:62)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

103Rh45 + D* --> 87Sr38 + 1808 + 10.775 MeV [-0.213 MeV]	(E_Rh:6)
103Rh45 + D* --> 88Sr38 + 1708 + 13.844 MeV [2.856 MeV]	(E_Rh:7)
103Rh45 + D* --> 92Zr40 + 13C6 + 10.442 MeV [-0.546 MeV]	(E_Rh:8)
103Rh45 + D* --> 96Mo42 + 9Be4 + 2.556 MeV [-8.432 MeV]	(E_Rh:9)
103Rh45 + D* --> 101Ru44 + 4He2 + 10.638 MeV [-0.350 MeV]	(E_Rh:10)
103Rh45 + D* --> 105Pd46 + 13.526 MeV [2.538 MeV]	(E_Rh:11)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Rh + n D reactions



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

- 102Pd46 + D* --> 53Cr24 + 51V23 + 32.697 MeV [21.428 MeV] (E_Pd:1)
- 102Pd46 + D* --> 54Cr24 + 50V23 + 31.365 MeV [20.096 MeV] (E_Pd:2)
- 102Pd46 + D* --> 55Mn25 + 49Ti22 + 31.480 MeV [20.212 MeV] (E_Pd:3)
- 102Pd46 + D* --> 64Ni28 + 40K19 + 25.845 MeV [14.577 MeV] (E_Pd:4)
- 102Pd46 + D* --> 67Zn30 + 37Cl17 + 24.853 MeV [13.584 MeV] (E_Pd:5)
- 102Pd46 + D* --> 71Ga31 + 33S16 + 21.937 MeV [10.668 MeV] (E_Pd:6)
- 102Pd46 + D* --> 73Ge32 + 31P15 + 20.949 MeV [9.681 MeV] (E_Pd:7)
- 102Pd46 + D* --> 75As33 + 29Si14 + 20.138 MeV [8.870 MeV] (E_Pd:8)
- 102Pd46 + D* --> 77Se34 + 27Al13 + 17.007 MeV [5.738 MeV] (E_Pd:9)
- 102Pd46 + D* --> 79Br35 + 25Mg12 + 14.472 MeV [3.203 MeV] (E_Pd:10)
- 102Pd46 + D* --> 90Zr40 + 14N7 + 11.114 MeV [-0.154 MeV] (E_Pd:11)
- 102Pd46 + D* --> 94Mo42 + 10B5 + 1.570 MeV [-9.699 MeV] (E_Pd:12)

- 104Pd46 + D* --> 81Br35 + 25Mg12 + 14.913 MeV [3.716 MeV] (E_Pd:13)
- 104Pd46 + D* --> 83Kr36 + 23Na11 + 13.257 MeV [2.060 MeV] (E_Pd:14)
- 104Pd46 + D* --> 85Rb37 + 21Ne10 + 11.645 MeV [00.448 MeV] (E_Pd:15)
- 104Pd46 + D* --> 87Sr38 + 19F9 + 10.113 MeV [-1.084 MeV] (E_Pd:16)
- 104Pd46 + D* --> 89Y39 + 17O8 + 12.256 MeV [1.059 MeV] (E_Pd:17)
- 104Pd46 + D* --> 91Zr40 + 15N7 + 11.535 MeV [00.337 MeV] (E_Pd:18)
- 104Pd46 + D* --> 92Zr40 + 14N7 + 9.336 MeV [-1.861 MeV] (E_Pd:19)
- 104Pd46 + D* --> 93Nb41 + 13C6 + 7.829 MeV [-3.368 MeV] (E_Pd:20)
- 104Pd46 + D* --> 95Mo42 + 11B5 + 2.785 MeV [-8.412 MeV] (E_Pd:21)
- 104Pd46 + D* --> 96Mo42 + 10B5 + 00.485 MeV [-10.712 MeV] (E_Pd:22)
- 104Pd46 + D* --> 105Pd46 + 1H1 + 4.870 MeV [-6.328 MeV] (E_Pd:23)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

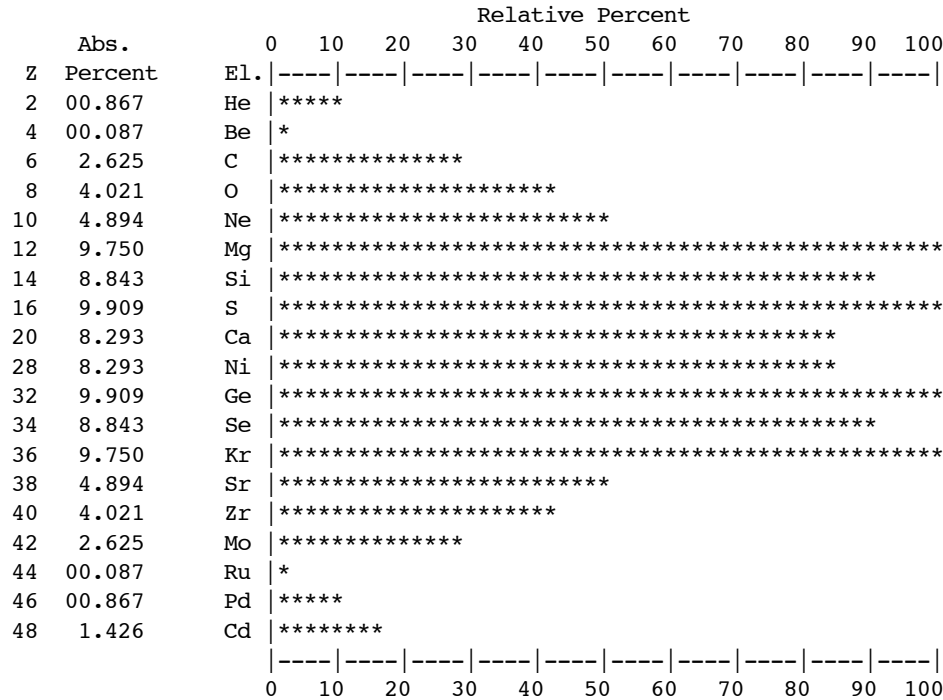
105Pd46 + D* --> 59Co27 + 48Ca20 + 31.165 MeV [20.003 MeV]	(E_Pd:24)
105Pd46 + D* --> 70Zn30 + 37Cl17 + 26.049 MeV [14.887 MeV]	(E_Pd:25)
105Pd46 + D* --> 71Ga31 + 36S16 + 25.527 MeV [14.365 MeV]	(E_Pd:26)
105Pd46 + D* --> 76Ge32 + 31P15 + 22.377 MeV [11.215 MeV]	(E_Pd:27)
105Pd46 + D* --> 80Se34 + 27Al13 + 19.679 MeV [8.517 MeV]	(E_Pd:28)
105Pd46 + D* --> 81Br35 + 26Mg12 + 18.912 MeV [7.750 MeV]	(E_Pd:29)
105Pd46 + D* --> 84Kr36 + 23Na11 + 16.684 MeV [5.522 MeV]	(E_Pd:30)
105Pd46 + D* --> 85Rb37 + 22Ne10 + 14.915 MeV [3.753 MeV]	(E_Pd:31)
105Pd46 + D* --> 87Rb37 + 20Ne10 + 16.363 MeV [5.200 MeV]	(E_Pd:32)
105Pd46 + D* --> 88Sr38 + 19F9 + 14.132 MeV [2.970 MeV]	(E_Pd:33)
105Pd46 + D* --> 89Y39 + 18O8 + 13.206 MeV [2.044 MeV]	(E_Pd:34)
105Pd46 + D* --> 92Zr40 + 15N7 + 13.075 MeV [1.913 MeV]	(E_Pd:35)
105Pd46 + D* --> 96Mo42 + 11B5 + 4.845 MeV [-6.317 MeV]	(E_Pd:36)
105Pd46 + D* --> 97Mo42 + 10B5 + 00.213 MeV [-10.950 MeV]	(E_Pd:37)
105Pd46 + D* --> 103Rh45 + 4He2 + 10.320 MeV [-0.842 MeV]	(E_Pd:38)
105Pd46 + D* --> 106Pd46 + 1H1 + 7.336 MeV [-3.826 MeV]	(E_Pd:39)
105Pd46 + D* --> 107Ag47 + 13.125 MeV [1.962 MeV]	(E_Pd:40)
106Pd46 + D* --> 87Rb37 + 21Ne10 + 13.563 MeV [2.435 MeV]	(E_Pd:41)
106Pd46 + D* --> 94Zr40 + 14N7 + 7.637 MeV [-3.491 MeV]	(E_Pd:42)
106Pd46 + D* --> 97Mo42 + 11B5 + 2.106 MeV [-9.022 MeV]	(E_Pd:43)
108Pd46 + D* --> 96Zr40 + 14N7 + 6.191 MeV [-4.869 MeV]	(E_Pd:44)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

107Ag47 + D* --> 80Se34 + 29Si14 + 24.389 MeV [13.054 MeV]	(E_Ag:4)
107Ag47 + D* --> 83Kr36 + 26Mg12 + 20.930 MeV [9.596 MeV]	(E_Ag:5)
107Ag47 + D* --> 84Kr36 + 25Mg12 + 20.358 MeV [9.023 MeV]	(E_Ag:6)
107Ag47 + D* --> 87Sr38 + 22Ne10 + 17.639 MeV [6.304 MeV]	(E_Ag:7)
107Ag47 + D* --> 88Sr38 + 21Ne10 + 18.387 MeV [7.053 MeV]	(E_Ag:8)
107Ag47 + D* --> 91Zr40 + 18O8 + 13.406 MeV [2.071 MeV]	(E_Ag:9)
107Ag47 + D* --> 92Zr40 + 17O8 + 13.997 MeV [2.662 MeV]	(E_Ag:10)
107Ag47 + D* --> 96Mo42 + 13C6 + 10.399 MeV [-0.935 MeV]	(E_Ag:11)
107Ag47 + D* --> 97Mo42 + 12C6 + 12.274 MeV [00.940 MeV]	(E_Ag:12)
107Ag47 + D* --> 100Ru44 + 9Be4 + 2.605 MeV [-8.729 MeV]	(E_Ag:13)
107Ag47 + D* --> 105Pd46 + 4He2 + 10.722 MeV [-0.613 MeV]	(E_Ag:14)
109Ag47 + D* --> 82Se34 + 29Si14 + 23.902 MeV [12.636 MeV]	(E_Ag:15)
109Ag47 + D* --> 86Kr36 + 25Mg12 + 20.871 MeV [9.605 MeV]	(E_Ag:16)
109Ag47 + D* --> 94Zr40 + 17O8 + 12.489 MeV [1.223 MeV]	(E_Ag:17)
109Ag47 + D* --> 98Mo42 + 13C6 + 9.400 MeV [-1.866 MeV]	(E_Ag:18)
109Ag47 + D* --> 102Ru44 + 9Be4 + 2.163 MeV [-9.103 MeV]	(E_Ag:19)
109Ag47 + D* --> 111Cd48 + 13.671 MeV [2.404 MeV]	(E_Ag:20)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Ag + n D reactions



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

- 106Cd48 + D* --> 55Mn25 + 53Cr24 + 38.999 MeV [27.387 MeV] (E_Cd:1)
- 106Cd48 + D* --> 57Fe26 + 51V23 + 38.385 MeV [26.773 MeV] (E_Cd:2)
- 106Cd48 + D* --> 58Fe26 + 50V23 + 37.378 MeV [25.767 MeV] (E_Cd:3)
- 106Cd48 + D* --> 59Co27 + 49Ti22 + 36.790 MeV [25.179 MeV] (E_Cd:4)
- 106Cd48 + D* --> 65Cu29 + 43Ca20 + 31.676 MeV [20.064 MeV] (E_Cd:5)
- 106Cd48 + D* --> 67Zn30 + 41K19 + 29.443 MeV [17.831 MeV] (E_Cd:6)
- 106Cd48 + D* --> 68Zn30 + 40K19 + 29.546 MeV [17.934 MeV] (E_Cd:7)
- 106Cd48 + D* --> 73Ge32 + 35Cl17 + 26.314 MeV [14.703 MeV] (E_Cd:8)
- 106Cd48 + D* --> 75As33 + 33S16 + 25.622 MeV [14.010 MeV] (E_Cd:9)
- 106Cd48 + D* --> 77Se34 + 31P15 + 25.044 MeV [13.432 MeV] (E_Cd:10)
- 106Cd48 + D* --> 79Br35 + 29Si14 + 23.967 MeV [12.355 MeV] (E_Cd:11)
- 106Cd48 + D* --> 94Mo42 + 14N7 + 11.550 MeV [-0.062 MeV] (E_Cd:12)
- 106Cd48 + D* --> 98Ru44 + 10B5 + 2.177 MeV [-9.434 MeV] (E_Cd:13)

- 108Cd48 + D* --> 70Zn30 + 40K19 + 26.983 MeV [15.443 MeV] (E_Cd:14)
- 108Cd48 + D* --> 73Ge32 + 37Cl17 + 26.942 MeV [15.402 MeV] (E_Cd:15)
- 108Cd48 + D* --> 81Br35 + 29Si14 + 23.753 MeV [12.213 MeV] (E_Cd:16)
- 108Cd48 + D* --> 83Kr36 + 27Al13 + 21.062 MeV [9.521 MeV] (E_Cd:17)
- 108Cd48 + D* --> 85Rb37 + 25Mg12 + 19.244 MeV [7.703 MeV] (E_Cd:18)
- 108Cd48 + D* --> 87Sr38 + 23Na11 + 18.294 MeV [6.753 MeV] (E_Cd:19)
- 108Cd48 + D* --> 89Y39 + 21Ne10 + 17.317 MeV [5.776 MeV] (E_Cd:20)
- 108Cd48 + D* --> 91Zr40 + 19F9 + 13.261 MeV [1.721 MeV] (E_Cd:21)
- 108Cd48 + D* --> 93Nb41 + 17O8 + 11.900 MeV [00.360 MeV] (E_Cd:22)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

108Cd48 + D* --> 95Mo42 + 15N7 + 11.489 MeV [-0.051 MeV] (E_Cd:23)
108Cd48 + D* --> 96Mo42 + 14N7 + 9.810 MeV [-1.730 MeV] (E_Cd:24)
108Cd48 + D* --> 99Ru44 + 11B5 + 2.832 MeV [-8.708 MeV] (E_Cd:25)
108Cd48 + D* --> 100Ru44 + 10B5 + 1.052 MeV [-10.489 MeV] (E_Cd:26)

110Cd48 + D* --> 87Rb37 + 25Mg12 + 20.573 MeV [9.102 MeV] (E_Cd:27)
110Cd48 + D* --> 97Mo42 + 15N7 + 10.222 MeV [-1.250 MeV] (E_Cd:28)
110Cd48 + D* --> 98Mo42 + 14N7 + 8.031 MeV [-3.440 MeV] (E_Cd:29)
110Cd48 + D* --> 101Ru44 + 11B5 + 2.065 MeV [-9.407 MeV] (E_Cd:30)
110Cd48 + D* --> 111Cd48 + 1H1 + 4.751 MeV [-6.720 MeV] (E_Cd:31)

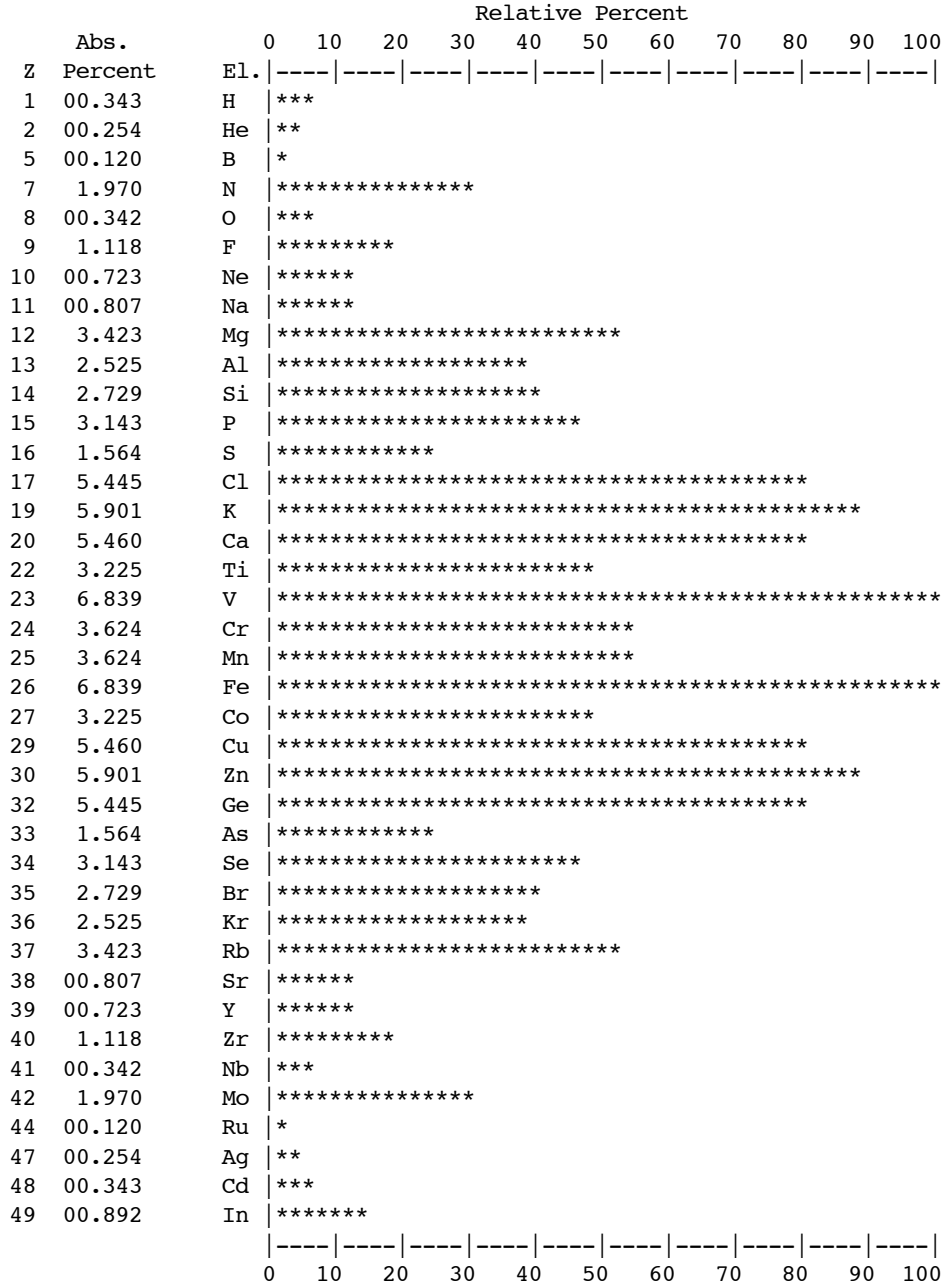
111Cd48 + D* --> 65Cu29 + 48Ca20 + 35.356 MeV [23.918 MeV] (E_Cd:32)
111Cd48 + D* --> 76Ge32 + 37Cl17 + 28.853 MeV [17.415 MeV] (E_Cd:33)
111Cd48 + D* --> 82Se34 + 31P15 + 25.913 MeV [14.476 MeV] (E_Cd:34)
111Cd48 + D* --> 86Kr36 + 27Al13 + 24.340 MeV [12.903 MeV] (E_Cd:35)
111Cd48 + D* --> 87Rb37 + 26Mg12 + 24.691 MeV [13.253 MeV] (E_Cd:36)
111Cd48 + D* --> 94Zr40 + 19F9 + 12.632 MeV [1.195 MeV] (E_Cd:37)
111Cd48 + D* --> 98Mo42 + 15N7 + 11.888 MeV [00.451 MeV] (E_Cd:38)
111Cd48 + D* --> 102Ru44 + 11B5 + 4.308 MeV [-7.129 MeV] (E_Cd:39)
111Cd48 + D* --> 109Ag47 + 4He2 + 10.176 MeV [-1.262 MeV] (E_Cd:40)
111Cd48 + D* --> 112Cd48 + 1H1 + 7.170 MeV [-4.268 MeV] (E_Cd:41)
111Cd48 + D* --> 113In49 + 13.248 MeV [1.810 MeV] (E_Cd:42)

112Cd48 + D* --> 100Mo42 + 14N7 + 5.876 MeV [-5.528 MeV] (E_Cd:43)
112Cd48 + D* --> 113Cd48 + 1H1 + 4.316 MeV [-7.089 MeV] (E_Cd:44)

113Cd48 + D* --> 96Zr40 + 19F9 + 11.017 MeV [-0.354 MeV] (E_Cd:45)
113Cd48 + D* --> 100Mo42 + 15N7 + 10.169 MeV [-1.202 MeV] (E_Cd:46)
113Cd48 + D* --> 104Ru44 + 11B5 + 3.507 MeV [-7.864 MeV] (E_Cd:47)
113Cd48 + D* --> 114Cd48 + 1H1 + 6.818 MeV [-4.552 MeV] (E_Cd:48)
113Cd48 + D* --> 115In49 + 13.623 MeV [2.252 MeV] (E_Cd:49)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Cd + n D reactions



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

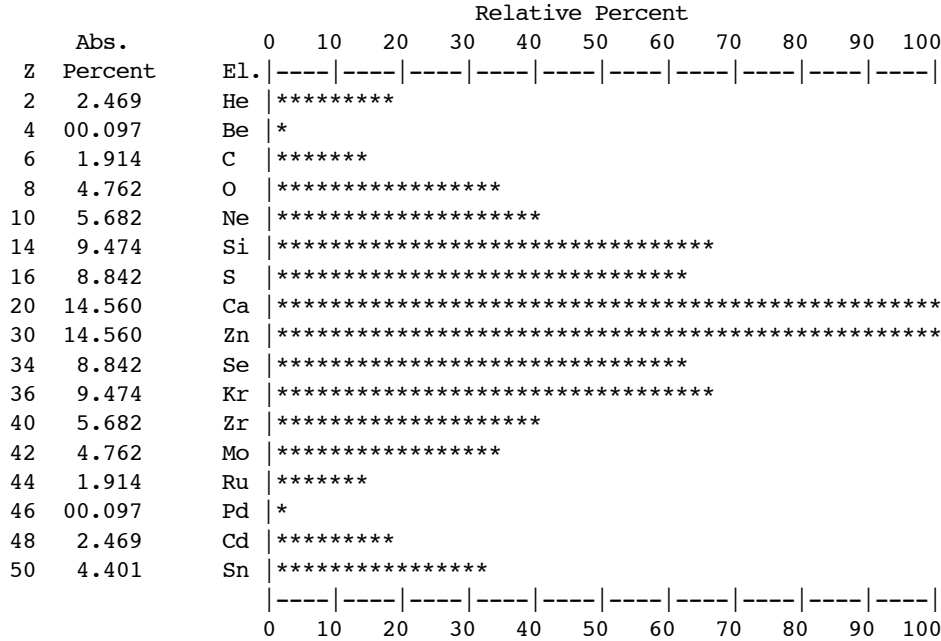
- 113In49 + D* --> 67Zn30 + 48Ca20 + 35.861 MeV [24.253 MeV] (E_In:1)
- 113In49 + D* --> 82Se34 + 33S16 + 27.946 MeV [16.338 MeV] (E_In:2)
- 113In49 + D* --> 86Kr36 + 29Si14 + 28.927 MeV [17.319 MeV] (E_In:3)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

113In49 + D* --> 94Zr40 + 21Ne10 + 16.765 MeV [5.157 MeV]	(E_In:4)
113In49 + D* --> 97Mo42 + 18O8 + 12.088 MeV [00.480 MeV]	(E_In:5)
113In49 + D* --> 98Mo42 + 17O8 + 12.687 MeV [1.079 MeV]	(E_In:6)
113In49 + D* --> 102Ru44 + 13C6 + 9.739 MeV [-1.869 MeV]	(E_In:7)
113In49 + D* --> 106Pd46 + 9Be4 + 2.321 MeV [-9.287 MeV]	(E_In:8)
113In49 + D* --> 111Cd48 + 4He2 + 10.599 MeV [-1.009 MeV]	(E_In:9)
113In49 + D* --> 115Sn50 + 13.802 MeV [2.194 MeV]	(E_In:10)
115In49 + D* --> 96Zr40 + 21Ne10 + 14.774 MeV [3.232 MeV]	(E_In:11)
115In49 + D* --> 100Mo42 + 17O8 + 10.592 MeV [-0.949 MeV]	(E_In:12)
115In49 + D* --> 104Ru44 + 13C6 + 8.563 MeV [-2.978 MeV]	(E_In:13)
115In49 + D* --> 108Pd46 + 9Be4 + 1.776 MeV [-9.765 MeV]	(E_In:14)
115In49 + D* --> 113Cd48 + 4He2 + 10.223 MeV [-1.318 MeV]	(E_In:15)
115In49 + D* --> 117Sn50 + 13.999 MeV [2.458 MeV]	(E_In:16)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for In + n D reactions



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

- 112Sn50 + D* --> 64Ni28 + 50V23 + 40.795 MeV [28.916 MeV] (E_Sn:1)
- 112Sn50 + D* --> 65Cu29 + 49Ti22 + 40.297 MeV [28.418 MeV] (E_Sn:2)
- 112Sn50 + D* --> 71Ga31 + 43Ca20 + 33.023 MeV [21.144 MeV] (E_Sn:3)
- 112Sn50 + D* --> 73Ge32 + 41K19 + 31.331 MeV [19.452 MeV] (E_Sn:4)
- 112Sn50 + D* --> 74Ge32 + 40K19 + 31.432 MeV [19.553 MeV] (E_Sn:5)
- 112Sn50 + D* --> 77Se34 + 37Cl17 + 30.836 MeV [18.956 MeV] (E_Sn:6)
- 112Sn50 + D* --> 81Br35 + 33S16 + 29.035 MeV [17.156 MeV] (E_Sn:7)
- 112Sn50 + D* --> 83Kr36 + 31P15 + 28.897 MeV [17.018 MeV] (E_Sn:8)
- 112Sn50 + D* --> 85Rb37 + 29Si14 + 28.537 MeV [16.658 MeV] (E_Sn:9)
- 112Sn50 + D* --> 87Sr38 + 27Al13 + 26.552 MeV [14.672 MeV] (E_Sn:10)
- 112Sn50 + D* --> 89Y39 + 25Mg12 + 25.369 MeV [13.490 MeV] (E_Sn:11)
- 112Sn50 + D* --> 91Zr40 + 23Na11 + 21.895 MeV [10.015 MeV] (E_Sn:12)
- 112Sn50 + D* --> 93Nb41 + 21Ne10 + 17.415 MeV [5.535 MeV] (E_Sn:13)
- 112Sn50 + D* --> 95Mo42 + 19F9 + 13.669 MeV [1.790 MeV] (E_Sn:14)
- 112Sn50 + D* --> 99Ru44 + 15N7 + 11.990 MeV [00.111 MeV] (E_Sn:15)
- 112Sn50 + D* --> 100Ru44 + 14N7 + 10.830 MeV [-1.049 MeV] (E_Sn:16)
- 112Sn50 + D* --> 104Pd46 + 10B5 + 1.814 MeV [-10.065 MeV] (E_Sn:17)

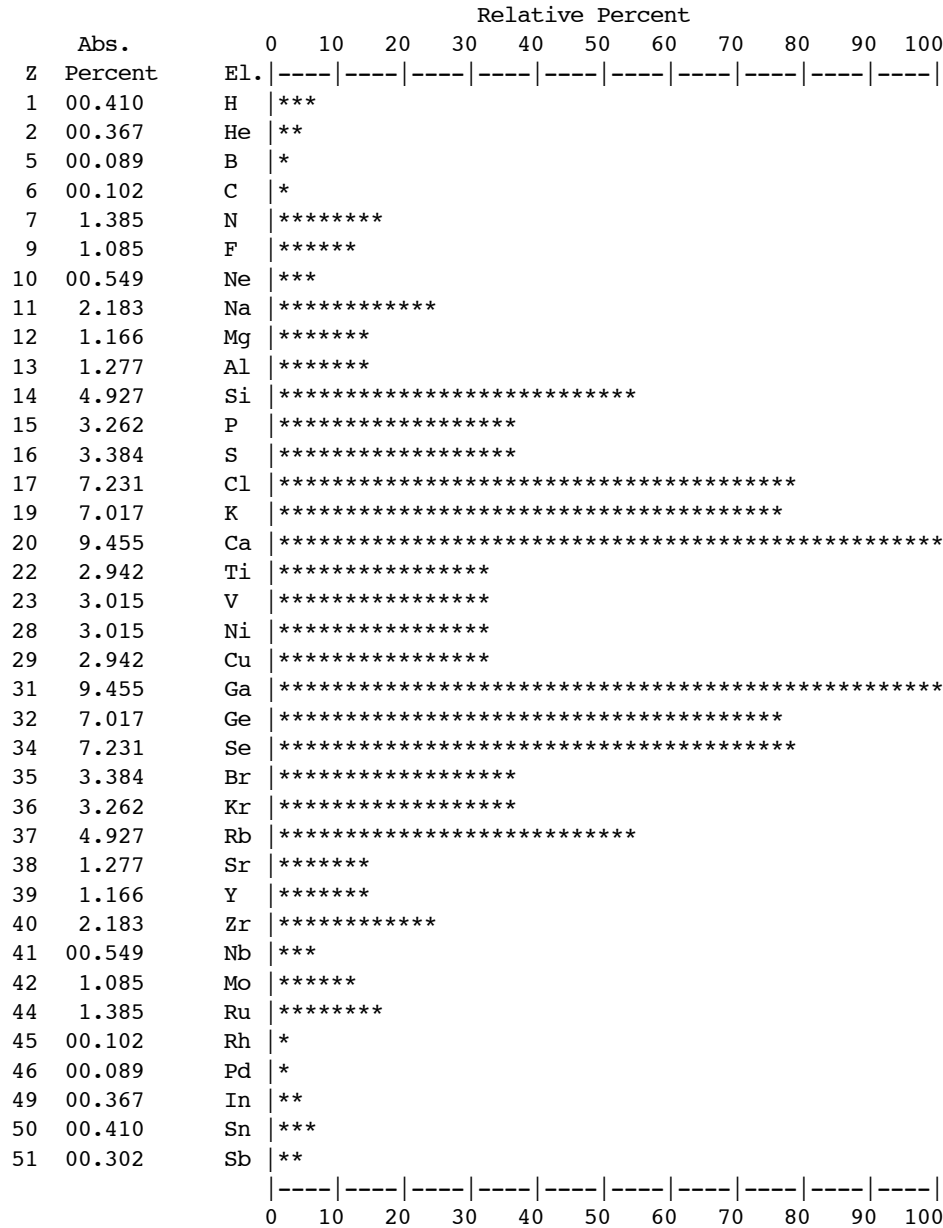
- 114Sn50 + D* --> 76Ge32 + 40K19 + 29.323 MeV [17.513 MeV] (E_Sn:18)
- 114Sn50 + D* --> 87Rb37 + 29Si14 + 29.068 MeV [17.257 MeV] (E_Sn:19)
- 114Sn50 + D* --> 97Mo42 + 19F9 + 11.603 MeV [-0.208 MeV] (E_Sn:20)
- 114Sn50 + D* --> 101Ru44 + 15N7 + 10.423 MeV [-1.387 MeV] (E_Sn:21)
- 114Sn50 + D* --> 102Ru44 + 14N7 + 8.809 MeV [-3.001 MeV] (E_Sn:22)
- 114Sn50 + D* --> 103Rh45 + 13C6 + 7.472 MeV [-4.339 MeV] (E_Sn:23)
- 114Sn50 + D* --> 105Pd46 + 11B5 + 2.320 MeV [-9.491 MeV] (E_Sn:24)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

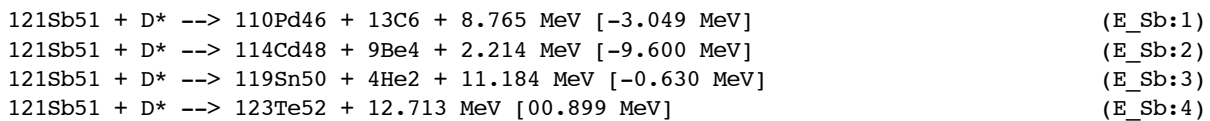
114Sn50 + D* --> 106Pd46 + 10B5 + 00.427 MeV [-11.384 MeV]	(E_Sn:25)
114Sn50 + D* --> 115Sn50 + 1H1 + 5.322 MeV [-6.489 MeV]	(E_Sn:26)
115Sn50 + D* --> 69Ga31 + 48Ca20 + 36.642 MeV [24.865 MeV]	(E_Sn:27)
115Sn50 + D* --> 71Ga31 + 46Ca20 + 36.375 MeV [24.598 MeV]	(E_Sn:28)
115Sn50 + D* --> 76Ge32 + 41K19 + 31.872 MeV [20.095 MeV]	(E_Sn:29)
115Sn50 + D* --> 80Se34 + 37Cl17 + 32.621 MeV [20.844 MeV]	(E_Sn:30)
115Sn50 + D* --> 82Se34 + 35Cl17 + 29.707 MeV [17.930 MeV]	(E_Sn:31)
115Sn50 + D* --> 81Br35 + 36S16 + 31.739 MeV [19.962 MeV]	(E_Sn:32)
115Sn50 + D* --> 86Kr36 + 31P15 + 30.806 MeV [19.029 MeV]	(E_Sn:33)
115Sn50 + D* --> 87Rb37 + 30Si14 + 32.130 MeV [20.354 MeV]	(E_Sn:34)
115Sn50 + D* --> 94Zr40 + 23Na11 + 19.896 MeV [8.120 MeV]	(E_Sn:35)
115Sn50 + D* --> 98Mo42 + 19F9 + 12.699 MeV [00.922 MeV]	(E_Sn:36)
115Sn50 + D* --> 102Ru44 + 15N7 + 12.096 MeV [00.320 MeV]	(E_Sn:37)
115Sn50 + D* --> 106Pd46 + 11B5 + 4.334 MeV [-7.443 MeV]	(E_Sn:38)
115Sn50 + D* --> 113In49 + 4He2 + 10.044 MeV [-1.732 MeV]	(E_Sn:39)
115Sn50 + D* --> 116Sn50 + 1H1 + 7.339 MeV [-4.438 MeV]	(E_Sn:40)
116Sn50 + D* --> 104Ru44 + 14N7 + 6.833 MeV [-4.910 MeV]	(E_Sn:41)
116Sn50 + D* --> 117Sn50 + 1H1 + 4.719 MeV [-7.025 MeV]	(E_Sn:42)
117Sn50 + D* --> 71Ga31 + 48Ca20 + 37.090 MeV [25.380 MeV]	(E_Sn:43)
117Sn50 + D* --> 82Se34 + 37Cl17 + 32.091 MeV [20.381 MeV]	(E_Sn:44)
117Sn50 + D* --> 96Zr40 + 23Na11 + 17.708 MeV [5.998 MeV]	(E_Sn:45)
117Sn50 + D* --> 100Mo42 + 19F9 + 10.407 MeV [-1.303 MeV]	(E_Sn:46)
117Sn50 + D* --> 104Ru44 + 15N7 + 10.723 MeV [-0.987 MeV]	(E_Sn:47)
117Sn50 + D* --> 108Pd46 + 11B5 + 3.592 MeV [-8.118 MeV]	(E_Sn:48)
117Sn50 + D* --> 115In49 + 4He2 + 9.847 MeV [-1.863 MeV]	(E_Sn:49)
117Sn50 + D* --> 118Sn50 + 1H1 + 7.103 MeV [-4.608 MeV]	(E_Sn:50)
118Sn50 + D* --> 119Sn50 + 1H1 + 4.259 MeV [-7.419 MeV]	(E_Sn:51)
119Sn50 + D* --> 110Pd46 + 11B5 + 2.749 MeV [-8.897 MeV]	(E_Sn:52)
119Sn50 + D* --> 120Sn50 + 1H1 + 6.883 MeV [-4.762 MeV]	(E_Sn:53)
119Sn50 + D* --> 121Sb51 + 12.662 MeV [1.017 MeV]	(E_Sn:54)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Sn + n D reactions



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



Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

123Sb51 + D* --> 116Cd48 + 9Be4 + 1.283 MeV [-10.467 MeV] (E_Sb:5)
123Sb51 + D* --> 125Te52 + 12.934 MeV [1.183 MeV] (E_Sb:6)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Sb + n D reactions

		Relative Percent											
Abs.	Percent	0	10	20	30	40	50	60	70	80	90	100	
Z	El.												
2	16.730	He	*****										
4	00.878	Be	*										
6	10.275	C	*****										
46	10.275	Pd	*****										
48	00.878	Cd	*										
50	16.730	Sn	*****										
52	44.232	Te	*****										
			0	10	20	30	40	50	60	70	80	90	100

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

- 120Te52 + D* --> 82Se34 + 40K19 + 34.860 MeV [22.782 MeV] (E_Te:1)
- 120Te52 + D* --> 108Pd46 + 14N7 + 10.392 MeV [-1.686 MeV] (E_Te:2)
- 120Te52 + D* --> 109Ag47 + 13C6 + 9.329 MeV [-2.749 MeV] (E_Te:3)
- 120Te52 + D* --> 111Cd48 + 11B5 + 4.321 MeV [-7.757 MeV] (E_Te:4)
- 120Te52 + D* --> 112Cd48 + 10B5 + 2.261 MeV [-9.817 MeV] (E_Te:5)
- 120Te52 + D* --> 113In49 + 9Be4 + 1.753 MeV [-10.325 MeV] (E_Te:6)
- 120Te52 + D* --> 116Sn50 + 6Li3 + 1.172 MeV [-10.906 MeV] (E_Te:7)

- 122Te52 + D* --> 110Pd46 + 14N7 + 8.307 MeV [-3.705 MeV] (E_Te:8)
- 122Te52 + D* --> 113Cd48 + 11B5 + 3.203 MeV [-8.810 MeV] (E_Te:9)
- 122Te52 + D* --> 114Cd48 + 10B5 + 00.792 MeV [-11.221 MeV] (E_Te:10)
- 122Te52 + D* --> 115In49 + 9Be4 + 1.011 MeV [-11.002 MeV] (E_Te:11)
- 122Te52 + D* --> 118Sn50 + 6Li3 + 00.391 MeV [-11.622 MeV] (E_Te:12)
- 122Te52 + D* --> 123Te52 + 1H1 + 4.705 MeV [-7.308 MeV] (E_Te:13)

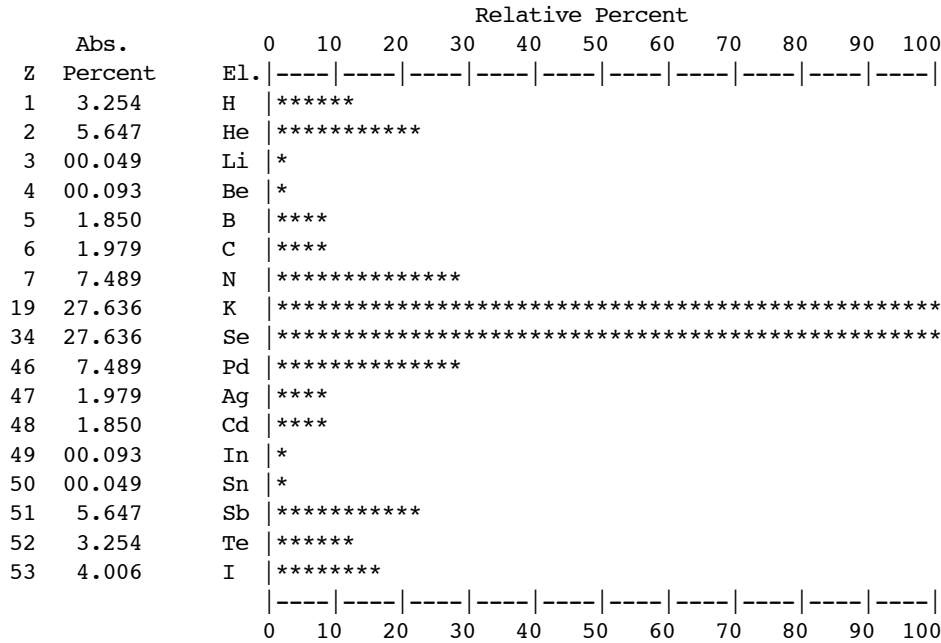
- 123Te52 + D* --> 110Pd46 + 15N7 + 12.212 MeV [00.231 MeV] (E_Te:14)
- 123Te52 + D* --> 114Cd48 + 11B5 + 5.317 MeV [-6.664 MeV] (E_Te:15)
- 123Te52 + D* --> 118Sn50 + 7Li3 + 00.712 MeV [-11.269 MeV] (E_Te:16)
- 123Te52 + D* --> 121Sb51 + 4He2 + 11.134 MeV [-0.847 MeV] (E_Te:17)
- 123Te52 + D* --> 124Te52 + 1H1 + 7.199 MeV [-4.781 MeV] (E_Te:18)

- 124Te52 + D* --> 125Te52 + 1H1 + 4.344 MeV [-7.605 MeV] (E_Te:19)

- 125Te52 + D* --> 116Cd48 + 11B5 + 4.165 MeV [-7.753 MeV] (E_Te:20)
- 125Te52 + D* --> 120Sn50 + 7Li3 + 00.310 MeV [-11.607 MeV] (E_Te:21)
- 125Te52 + D* --> 123Sb51 + 4He2 + 10.913 MeV [-1.005 MeV] (E_Te:22)
- 125Te52 + D* --> 126Te52 + 1H1 + 6.889 MeV [-5.028 MeV] (E_Te:23)
- 125Te52 + D* --> 127I53 + 13.097 MeV [1.179 MeV] (E_Te:24)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Te + n D reactions



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

- 127I53 + D* --> 116Cd48 + 13C6 + 9.747 MeV [-2.337 MeV] (E_I:1)
- 127I53 + D* --> 120Sn50 + 9Be4 + 3.910 MeV [-8.174 MeV] (E_I:2)
- 127I53 + D* --> 125Te52 + 4He2 + 10.750 MeV [-1.334 MeV] (E_I:3)
- 127I53 + D* --> 129Xe54 + 12.850 MeV [00.766 MeV] (E_I:4)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for I + n D reactions

Z	Abs. Percent	El.	Relative Percent									
			0	10	20	30	40	50	60	70	80	90
2	18.735	He	*****									
4	2.479	Be	*****									
6	15.402	C	*****									
48	15.402	Cd	*****									
50	2.479	Sn	*****									
52	18.735	Te	*****									
54	26.770	Xe	*****									

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

- 124Xe54 + D* --> 76Ge32 + 50V23 + 47.910 MeV [35.502 MeV] (E_Xe:1)
- 124Xe54 + D* --> 86Kr36 + 40K19 + 42.276 MeV [29.868 MeV] (E_Xe:2)
- 124Xe54 + D* --> 109Ag47 + 17O8 + 15.007 MeV [2.599 MeV] (E_Xe:3)
- 124Xe54 + D* --> 111Cd48 + 15N7 + 14.632 MeV [2.223 MeV] (E_Xe:4)
- 124Xe54 + D* --> 112Cd48 + 14N7 + 13.193 MeV [00.784 MeV] (E_Xe:5)
- 124Xe54 + D* --> 113In49 + 13C6 + 11.720 MeV [-0.688 MeV] (E_Xe:6)
- 124Xe54 + D* --> 115Sn50 + 11B5 + 6.844 MeV [-5.565 MeV] (E_Xe:7)
- 124Xe54 + D* --> 116Sn50 + 10B5 + 4.953 MeV [-7.456 MeV] (E_Xe:8)
- 124Xe54 + D* --> 120Te52 + 6Li3 + 00.793 MeV [-11.615 MeV] (E_Xe:9)

- 126Xe54 + D* --> 113Cd48 + 15N7 + 12.915 MeV [00.571 MeV] (E_Xe:10)
- 126Xe54 + D* --> 114Cd48 + 14N7 + 11.125 MeV [-1.219 MeV] (E_Xe:11)
- 126Xe54 + D* --> 115In49 + 13C6 + 10.379 MeV [-1.965 MeV] (E_Xe:12)
- 126Xe54 + D* --> 117Sn50 + 11B5 + 5.699 MeV [-6.644 MeV] (E_Xe:13)
- 126Xe54 + D* --> 118Sn50 + 10B5 + 3.573 MeV [-8.771 MeV] (E_Xe:14)
- 126Xe54 + D* --> 122Te52 + 6Li3 + 00.194 MeV [-12.149 MeV] (E_Xe:15)

- 128Xe54 + D* --> 116Cd48 + 14N7 + 9.132 MeV [-3.148 MeV] (E_Xe:16)
- 128Xe54 + D* --> 119Sn50 + 11B5 + 4.676 MeV [-7.604 MeV] (E_Xe:17)
- 128Xe54 + D* --> 120Sn50 + 10B5 + 2.330 MeV [-9.950 MeV] (E_Xe:18)
- 128Xe54 + D* --> 121Sb51 + 9Be4 + 1.523 MeV [-10.757 MeV] (E_Xe:19)
- 128Xe54 + D* --> 129Xe54 + 1H1 + 4.684 MeV [-7.596 MeV] (E_Xe:20)

- 129Xe54 + D* --> 116Cd48 + 15N7 + 13.056 MeV [00.808 MeV] (E_Xe:21)
- 129Xe54 + D* --> 120Sn50 + 11B5 + 6.875 MeV [-5.373 MeV] (E_Xe:22)
- 129Xe54 + D* --> 124Te52 + 7Li3 + 00.055 MeV [-12.194 MeV] (E_Xe:23)
- 129Xe54 + D* --> 127I53 + 4He2 + 10.997 MeV [-1.252 MeV] (E_Xe:24)
- 129Xe54 + D* --> 130Xe54 + 1H1 + 7.031 MeV [-5.218 MeV] (E_Xe:25)

- 130Xe54 + D* --> 122Sn50 + 10B5 + 1.149 MeV [-11.068 MeV] (E_Xe:26)
- 130Xe54 + D* --> 123Sb51 + 9Be4 + 1.130 MeV [-11.087 MeV] (E_Xe:27)
- 130Xe54 + D* --> 131Xe54 + 1H1 + 4.380 MeV [-7.837 MeV] (E_Xe:28)

- 131Xe54 + D* --> 122Sn50 + 11B5 + 5.999 MeV [-6.188 MeV] (E_Xe:29)
- 131Xe54 + D* --> 132Xe54 + 1H1 + 6.712 MeV [-5.475 MeV] (E_Xe:30)

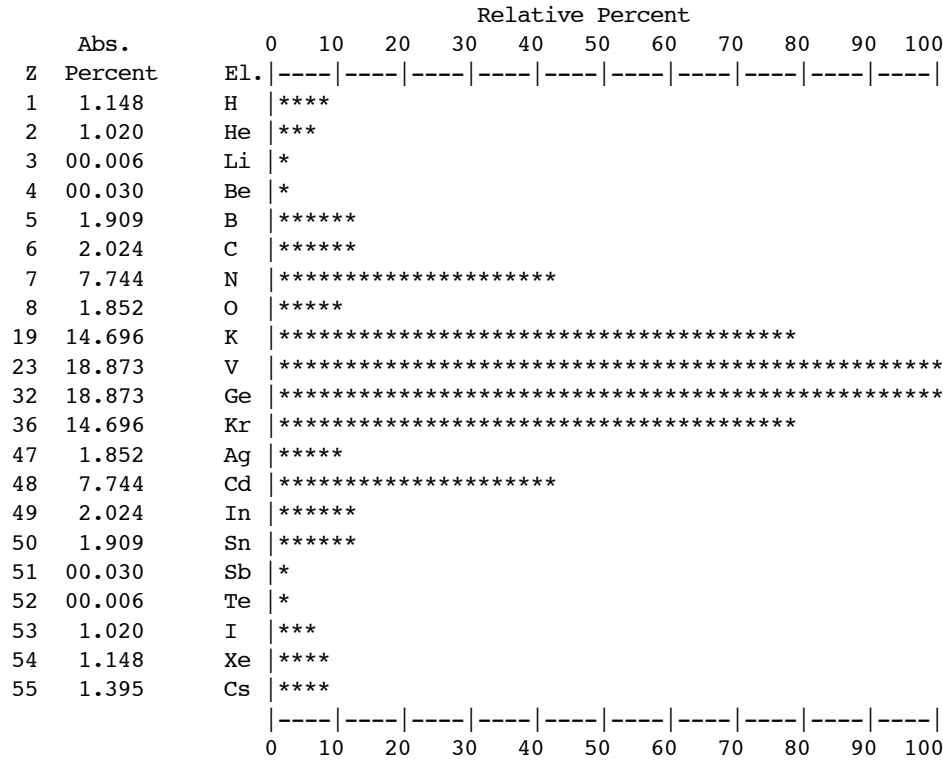
Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

$^{131}\text{Xe}_{54} + \text{D}^* \rightarrow ^{133}\text{Cs}_{55} + 12.791 \text{ MeV} [00.605 \text{ MeV}]$ (E_Xe:31)

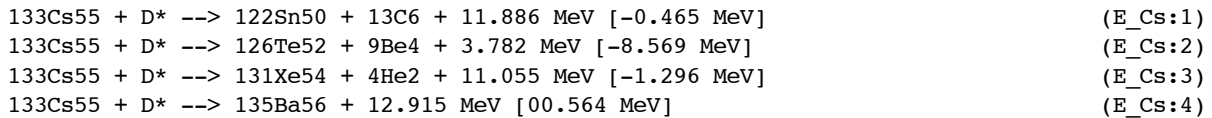
$^{132}\text{Xe}_{54} + \text{D}^* \rightarrow ^{124}\text{Sn}_{50} + ^{10}\text{B}_5 + 00.041 \text{ MeV} [-12.115 \text{ MeV}]$ (E_Xe:32)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Xe + n D reactions



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



Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Cs + n D reactions

Z	Percent	El.	Relative Percent									
			0	10	20	30	40	50	60	70	80	90
2	16.918	He	*****									
4	1.980	Be	*****									
6	19.556	C	*****									
50	19.556	Sn	*****									
52	1.980	Te	*****									
54	16.918	Xe	*****									
56	23.091	Ba	*****									

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

- 130Ba56 + D* --> 82Se34 + 50V23 + 52.690 MeV [40.020 MeV] (E_Ba:1)
- 130Ba56 + D* --> 113Cd48 + 19F9 + 16.411 MeV [3.741 MeV] (E_Ba:2)
- 130Ba56 + D* --> 115In49 + 17O8 + 16.220 MeV [3.549 MeV] (E_Ba:3)
- 130Ba56 + D* --> 117Sn50 + 15N7 + 16.173 MeV [3.502 MeV] (E_Ba:4)
- 130Ba56 + D* --> 118Sn50 + 14N7 + 14.667 MeV [1.997 MeV] (E_Ba:5)
- 130Ba56 + D* --> 122Te52 + 10B5 + 4.137 MeV [-8.533 MeV] (E_Ba:6)
- 130Ba56 + D* --> 126Xe54 + 6Li3 + 00.956 MeV [-11.714 MeV] (E_Ba:7)

- 132Ba56 + D* --> 119Sn50 + 15N7 + 14.668 MeV [2.061 MeV] (E_Ba:8)
- 132Ba56 + D* --> 120Sn50 + 14N7 + 12.943 MeV [00.336 MeV] (E_Ba:9)
- 132Ba56 + D* --> 121Sb51 + 13C6 + 11.171 MeV [-1.436 MeV] (E_Ba:10)
- 132Ba56 + D* --> 123Te52 + 11B5 + 5.205 MeV [-7.402 MeV] (E_Ba:11)
- 132Ba56 + D* --> 124Te52 + 10B5 + 3.175 MeV [-9.432 MeV] (E_Ba:12)
- 132Ba56 + D* --> 128Xe54 + 6Li3 + 00.474 MeV [-12.133 MeV] (E_Ba:13)

- 134Ba56 + D* --> 122Sn50 + 14N7 + 11.268 MeV [-1.276 MeV] (E_Ba:14)
- 134Ba56 + D* --> 123Sb51 + 13C6 + 10.285 MeV [-2.260 MeV] (E_Ba:15)
- 134Ba56 + D* --> 125Te52 + 11B5 + 4.540 MeV [-8.005 MeV] (E_Ba:16)
- 134Ba56 + D* --> 126Te52 + 10B5 + 2.200 MeV [-10.345 MeV] (E_Ba:17)
- 134Ba56 + D* --> 127I53 + 9Be4 + 1.821 MeV [-10.723 MeV] (E_Ba:18)
- 134Ba56 + D* --> 135Ba56 + 1H1 + 4.747 MeV [-7.797 MeV] (E_Ba:19)

- 135Ba56 + D* --> 122Sn50 + 15N7 + 15.130 MeV [2.616 MeV] (E_Ba:20)
- 135Ba56 + D* --> 126Te52 + 11B5 + 6.682 MeV [-5.832 MeV] (E_Ba:21)
- 135Ba56 + D* --> 130Xe54 + 7Li3 + 00.259 MeV [-12.255 MeV] (E_Ba:22)
- 135Ba56 + D* --> 133Cs55 + 4He2 + 10.931 MeV [-1.583 MeV] (E_Ba:23)
- 135Ba56 + D* --> 136Ba56 + 1H1 + 6.883 MeV [-5.631 MeV] (E_Ba:24)

- 136Ba56 + D* --> 124Sn50 + 14N7 + 9.622 MeV [-2.862 MeV] (E_Ba:25)
- 136Ba56 + D* --> 128Te52 + 10B5 + 1.190 MeV [-11.294 MeV] (E_Ba:26)
- 136Ba56 + D* --> 137Ba56 + 1H1 + 4.681 MeV [-7.803 MeV] (E_Ba:27)
- 136Ba56 + D* --> 138La57 + 10.773 MeV [-1.710 MeV] (E_Ba:28)

- 137Ba56 + D* --> 124Sn50 + 15N7 + 13.550 MeV [1.096 MeV] (E_Ba:29)
- 137Ba56 + D* --> 128Te52 + 11B5 + 5.739 MeV [-6.715 MeV] (E_Ba:30)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

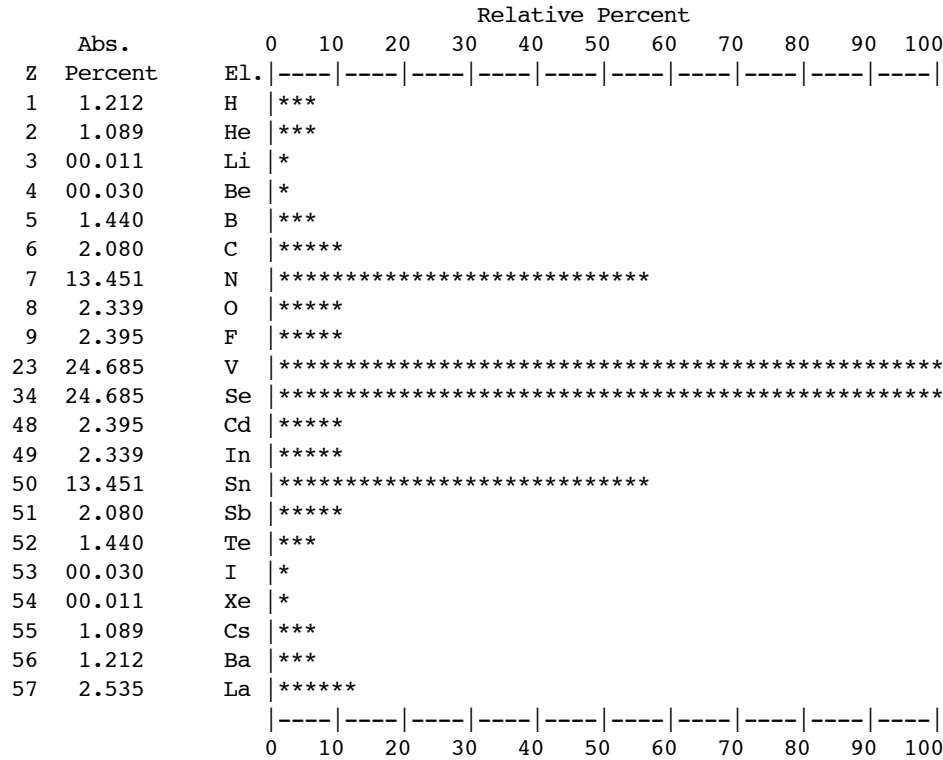
$^{137}\text{Ba}_{56} + \text{D}^* \rightarrow ^{138}\text{Ba}_{56} + ^1\text{H}_1 + 6.387 \text{ MeV} [-6.067 \text{ MeV}]$ (E_Ba:31)

$^{137}\text{Ba}_{56} + \text{D}^* \rightarrow ^{139}\text{La}_{57} + 12.646 \text{ MeV} [00.192 \text{ MeV}]$ (E_Ba:32)

$^{138}\text{Ba}_{56} + \text{D}^* \rightarrow ^{130}\text{Te}_{52} + ^{10}\text{B}_5 + 00.175 \text{ MeV} [-12.249 \text{ MeV}]$ (E_Ba:33)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Ba + n D reactions



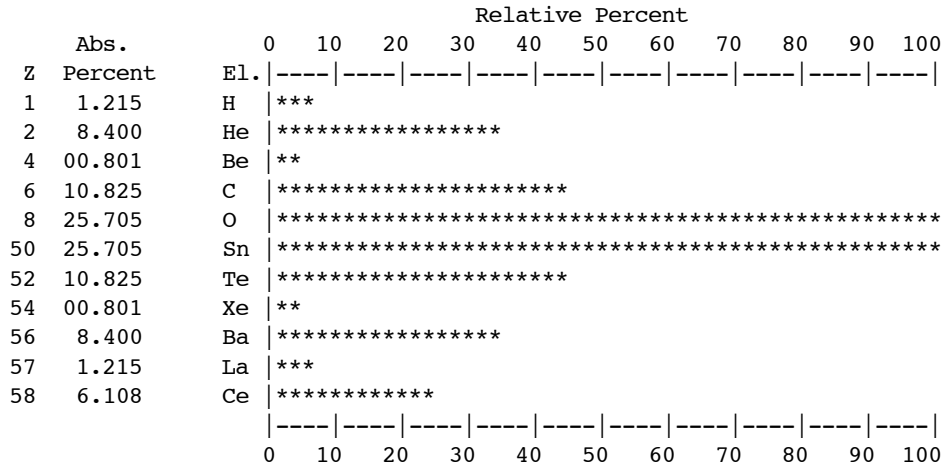
----- Equations follow for Lanthanum, La, element 57 -----

- 138La57 + D* --> 122Sn50 + 1808 + 17.339 MeV [4.693 MeV] (E_La:1)
- 138La57 + D* --> 124Sn50 + 1608 + 19.585 MeV [6.939 MeV] (E_La:2)
- 138La57 + D* --> 128Te52 + 12C6 + 15.603 MeV [2.957 MeV] (E_La:3)
- 138La57 + D* --> 131Xe54 + 9Be4 + 3.679 MeV [-8.967 MeV] (E_La:4)
- 138La57 + D* --> 136Ba56 + 4He2 + 13.073 MeV [00.427 MeV] (E_La:5)
- 138La57 + D* --> 139La57 + 1H1 + 6.553 MeV [-6.093 MeV] (E_La:6)
- 138La57 + D* --> 140Ce58 + 14.694 MeV [2.048 MeV] (E_La:7)

- 139La57 + D* --> 124Sn50 + 1708 + 14.950 MeV [2.334 MeV] (E_La:8)
- 139La57 + D* --> 128Te52 + 13C6 + 11.771 MeV [-0.845 MeV] (E_La:9)
- 139La57 + D* --> 132Xe54 + 9Be4 + 3.837 MeV [-8.779 MeV] (E_La:10)
- 139La57 + D* --> 137Ba56 + 4He2 + 11.201 MeV [-1.415 MeV] (E_La:11)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for La + n D reactions



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

- 136Ce58 + D* --> 119Sn50 + 19F9 + 18.223 MeV [5.293 MeV] (E_Ce:1)
- 136Ce58 + D* --> 121Sb51 + 17O8 + 17.071 MeV [4.142 MeV] (E_Ce:2)
- 136Ce58 + D* --> 123Te52 + 15N7 + 15.738 MeV [2.808 MeV] (E_Ce:3)
- 136Ce58 + D* --> 124Te52 + 14N7 + 14.329 MeV [1.399 MeV] (E_Ce:4)
- 136Ce58 + D* --> 128Xe54 + 10B5 + 4.477 MeV [-8.453 MeV] (E_Ce:5)
- 136Ce58 + D* --> 132Ba56 + 6Li3 + 1.015 MeV [-11.914 MeV] (E_Ce:6)

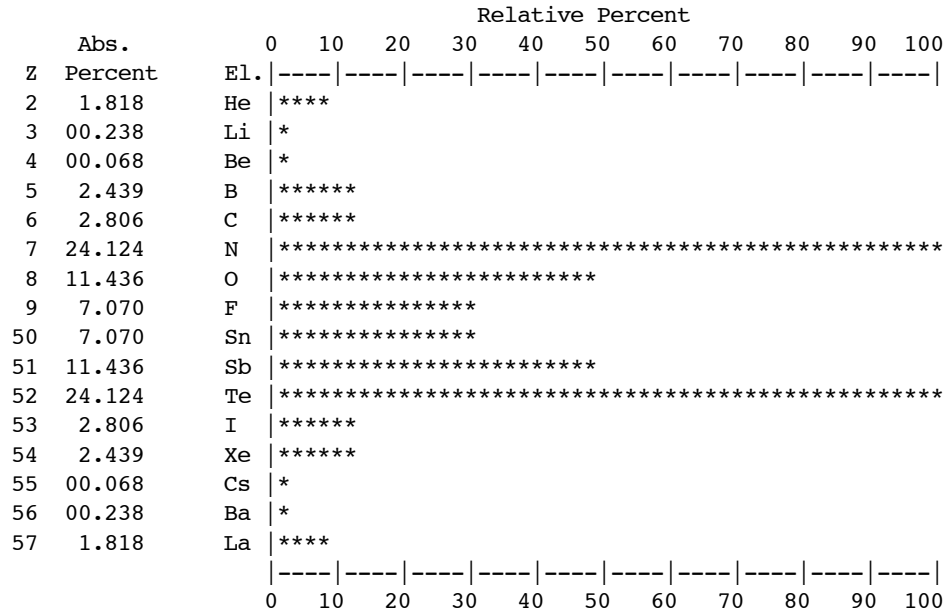
- 138Ce58 + D* --> 123Sb51 + 17O8 + 15.600 MeV [2.732 MeV] (E_Ce:7)
- 138Ce58 + D* --> 125Te52 + 15N7 + 14.488 MeV [1.620 MeV] (E_Ce:8)
- 138Ce58 + D* --> 126Te52 + 14N7 + 12.768 MeV [-0.099 MeV] (E_Ce:9)
- 138Ce58 + D* --> 127I53 + 13C6 + 11.425 MeV [-1.442 MeV] (E_Ce:10)
- 138Ce58 + D* --> 129Xe54 + 11B5 + 5.597 MeV [-7.271 MeV] (E_Ce:11)
- 138Ce58 + D* --> 130Xe54 + 10B5 + 3.398 MeV [-9.470 MeV] (E_Ce:12)
- 138Ce58 + D* --> 134Ba56 + 6Li3 + 00.430 MeV [-12.438 MeV] (E_Ce:13)

- 140Ce58 + D* --> 128Te52 + 14N7 + 11.181 MeV [-1.626 MeV] (E_Ce:14)
- 140Ce58 + D* --> 131Xe54 + 11B5 + 4.800 MeV [-8.007 MeV] (E_Ce:15)
- 140Ce58 + D* --> 132Xe54 + 10B5 + 2.282 MeV [-10.525 MeV] (E_Ce:16)
- 140Ce58 + D* --> 133Cs55 + 9Be4 + 1.776 MeV [-11.031 MeV] (E_Ce:17)
- 140Ce58 + D* --> 138La57 + 4He2 + 9.152 MeV [-3.655 MeV] (E_Ce:18)

- 142Ce58 + D* --> 130Te52 + 14N7 + 13.085 MeV [00.338 MeV] (E_Ce:19)
- 142Ce58 + D* --> 134Xe54 + 10B5 + 4.671 MeV [-8.077 MeV] (E_Ce:20)
- 142Ce58 + D* --> 137Ba56 + 7Li3 + 1.410 MeV [-11.337 MeV] (E_Ce:21)
- 142Ce58 + D* --> 138Ba56 + 6Li3 + 2.772 MeV [-9.975 MeV] (E_Ce:22)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Ce + n D reactions

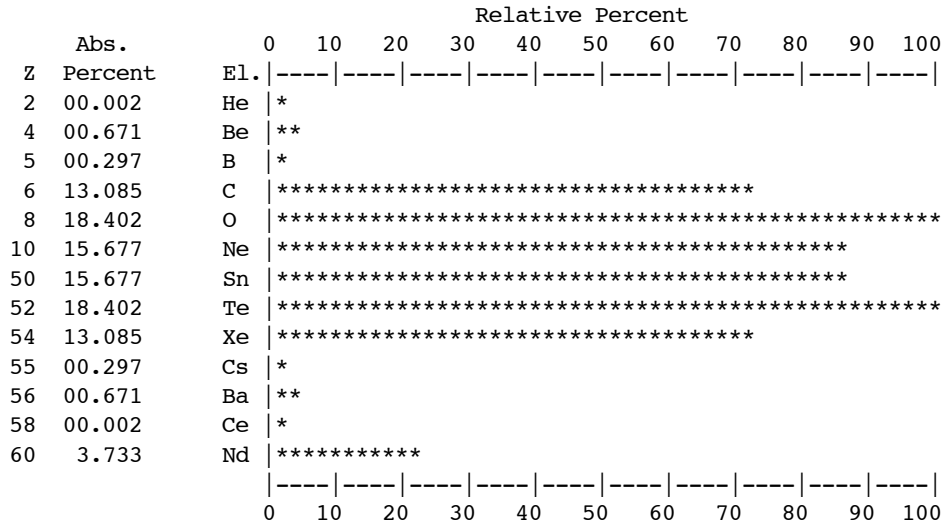


----- Equations follow for Praseodymium, Pr, element 59 -----

- 141Pr59 + D* --> 122Sn50 + 21Ne10 + 22.793 MeV [9.795 MeV] (E_Pr:1)
- 141Pr59 + D* --> 125Te52 + 18O8 + 16.919 MeV [3.921 MeV] (E_Pr:2)
- 141Pr59 + D* --> 126Te52 + 17O8 + 17.988 MeV [4.991 MeV] (E_Pr:3)
- 141Pr59 + D* --> 130Xe54 + 13C6 + 13.872 MeV [00.874 MeV] (E_Pr:4)
- 141Pr59 + D* --> 131Xe54 + 12C6 + 15.530 MeV [2.533 MeV] (E_Pr:5)
- 141Pr59 + D* --> 133Cs55 + 10B5 + 3.135 MeV [-9.862 MeV] (E_Pr:6)
- 141Pr59 + D* --> 134Ba56 + 9Be4 + 4.717 MeV [-8.280 MeV] (E_Pr:7)
- 141Pr59 + D* --> 140Ce58 + 3He2 + 00.267 MeV [-12.731 MeV] (E_Pr:8)
- 141Pr59 + D* --> 143Nd60 + 11.122 MeV [-1.875 MeV] (E_Pr:9)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Pr + n D reactions



----- Equations follow for Neodymium, Nd, element 60 -----

- 142Nd60 + D* --> 123Sb51 + 21Ne10 + 22.136 MeV [8.949 MeV] (E_Nd:1)
- 142Nd60 + D* --> 125Te52 + 19F9 + 17.690 MeV [4.503 MeV] (E_Nd:2)
- 142Nd60 + D* --> 127I53 + 17O8 + 16.972 MeV [3.785 MeV] (E_Nd:3)
- 142Nd60 + D* --> 129Xe54 + 15N7 + 15.776 MeV [2.589 MeV] (E_Nd:4)
- 142Nd60 + D* --> 130Xe54 + 14N7 + 14.199 MeV [1.012 MeV] (E_Nd:5)
- 142Nd60 + D* --> 134Ba56 + 10B5 + 4.080 MeV [-9.107 MeV] (E_Nd:6)
- 142Nd60 + D* --> 138Ce58 + 6Li3 + 00.662 MeV [-12.525 MeV] (E_Nd:7)
- 142Nd60 + D* --> 143Nd60 + 1H1 + 3.899 MeV [-9.288 MeV] (E_Nd:8)

- 143Nd60 + D* --> 122Sn50 + 23Na11 + 28.604 MeV [15.447 MeV] (E_Nd:9)
- 143Nd60 + D* --> 123Sb51 + 22Ne10 + 26.377 MeV [13.220 MeV] (E_Nd:10)
- 143Nd60 + D* --> 126Te52 + 19F9 + 20.680 MeV [7.524 MeV] (E_Nd:11)
- 143Nd60 + D* --> 127I53 + 18O8 + 18.893 MeV [5.736 MeV] (E_Nd:12)
- 143Nd60 + D* --> 130Xe54 + 15N7 + 18.909 MeV [5.752 MeV] (E_Nd:13)
- 143Nd60 + D* --> 131Xe54 + 14N7 + 14.680 MeV [1.523 MeV] (E_Nd:14)
- 143Nd60 + D* --> 133Cs55 + 12C6 + 17.199 MeV [4.043 MeV] (E_Nd:15)
- 143Nd60 + D* --> 134Ba56 + 11B5 + 9.410 MeV [-3.747 MeV] (E_Nd:16)
- 143Nd60 + D* --> 135Ba56 + 10B5 + 4.928 MeV [-8.229 MeV] (E_Nd:17)
- 143Nd60 + D* --> 138Ce58 + 7Li3 + 1.789 MeV [-11.368 MeV] (E_Nd:18)
- 143Nd60 + D* --> 141Pr59 + 4He2 + 12.724 MeV [-0.432 MeV] (E_Nd:19)
- 143Nd60 + D* --> 144Nd60 + 1H1 + 5.592 MeV [-7.564 MeV] (E_Nd:20)

- 144Nd60 + D* --> 131Xe54 + 15N7 + 17.696 MeV [4.570 MeV] (E_Nd:21)
- 144Nd60 + D* --> 132Xe54 + 14N7 + 15.800 MeV [2.673 MeV] (E_Nd:22)
- 144Nd60 + D* --> 133Cs55 + 13C6 + 14.329 MeV [1.202 MeV] (E_Nd:23)
- 144Nd60 + D* --> 135Ba56 + 11B5 + 8.565 MeV [-4.561 MeV] (E_Nd:24)
- 144Nd60 + D* --> 136Ba56 + 10B5 + 6.219 MeV [-6.908 MeV] (E_Nd:25)
- 144Nd60 + D* --> 140Ce58 + 6Li3 + 3.379 MeV [-9.748 MeV] (E_Nd:26)
- 144Nd60 + D* --> 145Nd60 + 1H1 + 3.531 MeV [-9.596 MeV] (E_Nd:27)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

145Nd60 + D* --> 124Sn50 + 23Na11 + 29.465 MeV [16.368 MeV] (E_Nd:28)
145Nd60 + D* --> 128Te52 + 19F9 + 22.178 MeV [9.081 MeV] (E_Nd:29)
145Nd60 + D* --> 132Xe54 + 15N7 + 20.878 MeV [7.781 MeV] (E_Nd:30)
145Nd60 + D* --> 136Ba56 + 11B5 + 11.918 MeV [-1.179 MeV] (E_Nd:31)
145Nd60 + D* --> 137Ba56 + 10B5 + 7.369 MeV [-5.728 MeV] (E_Nd:32)
145Nd60 + D* --> 138La57 + 9Be4 + 6.876 MeV [-6.221 MeV] (E_Nd:33)
145Nd60 + D* --> 140Ce58 + 7Li3 + 4.874 MeV [-8.223 MeV] (E_Nd:34)
145Nd60 + D* --> 146Nd60 + 1H1 + 5.341 MeV [-7.756 MeV] (E_Nd:35)

146Nd60 + D* --> 134Xe54 + 14N7 + 17.466 MeV [4.399 MeV] (E_Nd:36)
146Nd60 + D* --> 137Ba56 + 11B5 + 11.258 MeV [-1.809 MeV] (E_Nd:37)
146Nd60 + D* --> 138Ba56 + 10B5 + 8.416 MeV [-4.652 MeV] (E_Nd:38)
146Nd60 + D* --> 139La57 + 9Be4 + 8.088 MeV [-4.979 MeV] (E_Nd:39)
146Nd60 + D* --> 142Ce58 + 6Li3 + 2.656 MeV [-10.411 MeV] (E_Nd:40)

148Nd60 + D* --> 136Xe54 + 14N7 + 19.284 MeV [6.275 MeV] (E_Nd:41)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Nd + n D reactions

Z	Abs. Percent	El.	Relative Percent																		
			0	10	20	30	40	50	60	70	80	90	100								
1	00.486	H	**																		
2	00.897	He	***																		
3	00.256	Li	*																		
4	00.632	Be	***																		
5	3.547	B	*****																		
6	2.781	C	*****																		
7	15.048	N	*****																		
8	3.566	O	*****																		
9	6.845	F	*****																		
10	6.556	Ne	*****																		
11	9.386	Na	*****																		
50	9.386	Sn	*****																		
51	6.556	Sb	*****																		
52	6.845	Te	*****																		
53	3.566	I	*****																		
54	15.048	Xe	*****																		
55	2.781	Cs	*****																		
56	3.547	Ba	*****																		
57	00.632	La	***																		
58	00.256	Ce	*																		
59	00.897	Pr	***																		
60	00.486	Nd	**																		

----- Equations follow for Samarium, Sm, element 62 -----

- 144Sm62 + D* --> 96Zr40 + 50V23 + 65.828 MeV [52.264 MeV] (E_Sm:1)
- 144Sm62 + D* --> 119Sn50 + 27Al13 + 38.429 MeV [24.865 MeV] (E_Sm:2)
- 144Sm62 + D* --> 121Sb51 + 25Mg12 + 33.952 MeV [20.388 MeV] (E_Sm:3)
- 144Sm62 + D* --> 123Te52 + 23Na11 + 29.866 MeV [16.301 MeV] (E_Sm:4)
- 144Sm62 + D* --> 132Ba56 + 14N7 + 16.735 MeV [3.171 MeV] (E_Sm:5)
- 144Sm62 + D* --> 136Ce58 + 10B5 + 5.581 MeV [-7.983 MeV] (E_Sm:6)

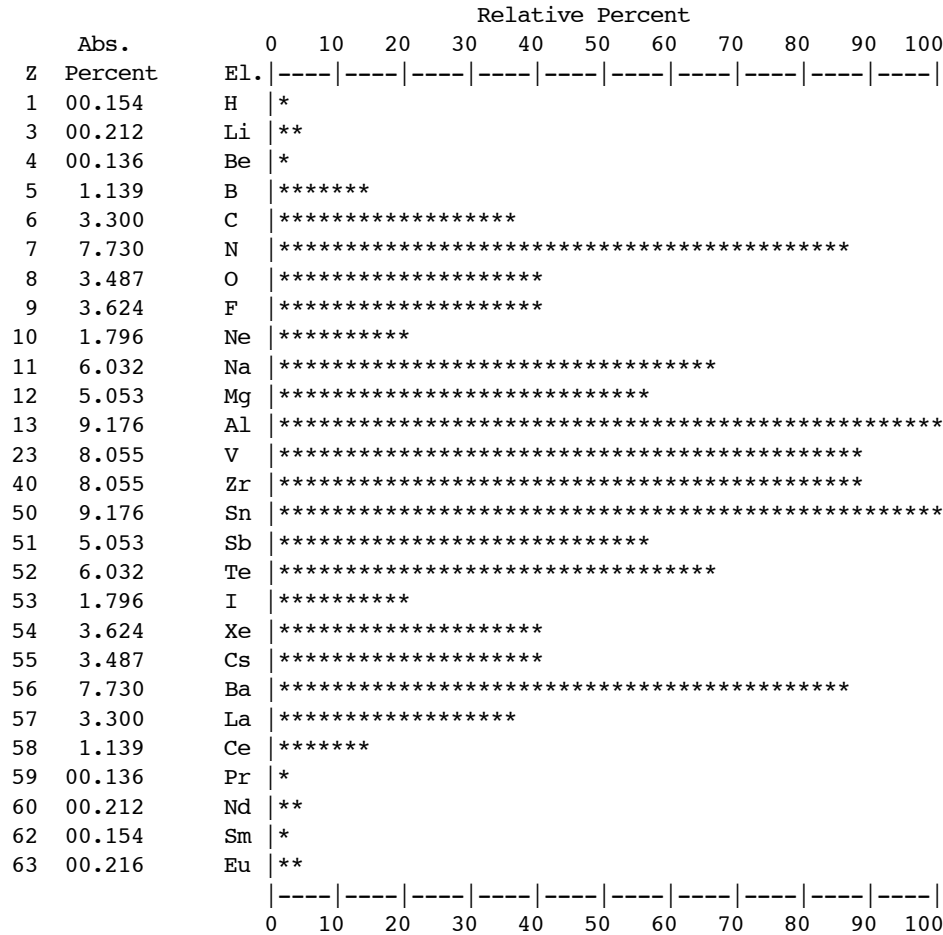
- 147Sm62 + D* --> 122Sn50 + 27Al13 + 41.006 MeV [27.534 MeV] (E_Sm:7)
- 147Sm62 + D* --> 123Sb51 + 26Mg12 + 39.302 MeV [25.830 MeV] (E_Sm:8)
- 147Sm62 + D* --> 126Te52 + 23Na11 + 33.458 MeV [19.986 MeV] (E_Sm:9)
- 147Sm62 + D* --> 127I53 + 22Ne10 + 30.871 MeV [17.399 MeV] (E_Sm:10)
- 147Sm62 + D* --> 130Xe54 + 19F9 + 25.233 MeV [11.760 MeV] (E_Sm:11)
- 147Sm62 + D* --> 133Cs55 + 16O8 + 26.672 MeV [13.199 MeV] (E_Sm:12)
- 147Sm62 + D* --> 134Ba56 + 15N7 + 22.712 MeV [9.240 MeV] (E_Sm:13)
- 147Sm62 + D* --> 135Ba56 + 14N7 + 18.851 MeV [5.378 MeV] (E_Sm:14)
- 147Sm62 + D* --> 138Ce58 + 11B5 + 12.764 MeV [-0.708 MeV] (E_Sm:15)
- 147Sm62 + D* --> 142Nd60 + 7Li3 + 4.911 MeV [-8.562 MeV] (E_Sm:16)
- 147Sm62 + D* --> 143Nd60 + 6Li3 + 3.784 MeV [-9.688 MeV] (E_Sm:17)
- 147Sm62 + D* --> 148Sm62 + 1H1 + 5.917 MeV [-7.556 MeV] (E_Sm:18)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

148Sm62 + D* --> 131Xe54 + 19F9 + 23.696 MeV [10.254 MeV]	(E_Sm:19)
148Sm62 + D* --> 133Cs55 + 17O8 + 22.673 MeV [9.231 MeV]	(E_Sm:20)
148Sm62 + D* --> 135Ba56 + 15N7 + 21.543 MeV [8.100 MeV]	(E_Sm:21)
148Sm62 + D* --> 136Ba56 + 14N7 + 19.817 MeV [6.375 MeV]	(E_Sm:22)
148Sm62 + D* --> 138La57 + 12C6 + 20.318 MeV [6.876 MeV]	(E_Sm:23)
148Sm62 + D* --> 140Ce58 + 10B5 + 9.826 MeV [-3.616 MeV]	(E_Sm:24)
148Sm62 + D* --> 141Pr59 + 9Be4 + 8.467 MeV [-4.976 MeV]	(E_Sm:25)
148Sm62 + D* --> 143Nd60 + 7Li3 + 2.893 MeV [-10.550 MeV]	(E_Sm:26)
148Sm62 + D* --> 144Nd60 + 6Li3 + 3.460 MeV [-9.983 MeV]	(E_Sm:27)
148Sm62 + D* --> 149Sm62 + 1H1 + 3.647 MeV [-9.796 MeV]	(E_Sm:28)
149Sm62 + D* --> 124Sn50 + 27Al13 + 41.427 MeV [28.014 MeV]	(E_Sm:29)
149Sm62 + D* --> 128Te52 + 23Na11 + 34.516 MeV [21.103 MeV]	(E_Sm:30)
149Sm62 + D* --> 132Xe54 + 19F9 + 26.762 MeV [13.349 MeV]	(E_Sm:31)
149Sm62 + D* --> 133Cs55 + 18O8 + 24.846 MeV [11.434 MeV]	(E_Sm:32)
149Sm62 + D* --> 136Ba56 + 15N7 + 24.779 MeV [11.367 MeV]	(E_Sm:33)
149Sm62 + D* --> 137Ba56 + 14N7 + 20.852 MeV [7.439 MeV]	(E_Sm:34)
149Sm62 + D* --> 138La57 + 13C6 + 19.393 MeV [5.981 MeV]	(E_Sm:35)
149Sm62 + D* --> 139La57 + 12C6 + 23.225 MeV [9.812 MeV]	(E_Sm:36)
149Sm62 + D* --> 140Ce58 + 11B5 + 15.409 MeV [1.996 MeV]	(E_Sm:37)
149Sm62 + D* --> 144Nd60 + 7Li3 + 4.839 MeV [-8.574 MeV]	(E_Sm:38)
149Sm62 + D* --> 145Nd60 + 6Li3 + 3.344 MeV [-10.069 MeV]	(E_Sm:39)
149Sm62 + D* --> 150Sm62 + 1H1 + 5.762 MeV [-7.651 MeV]	(E_Sm:40)
149Sm62 + D* --> 151Eu63 + 10.653 MeV [-2.760 MeV]	(E_Sm:41)
150Sm62 + D* --> 137Ba56 + 15N7 + 23.698 MeV [10.315 MeV]	(E_Sm:42)
150Sm62 + D* --> 138Ba56 + 14N7 + 21.477 MeV [8.093 MeV]	(E_Sm:43)
150Sm62 + D* --> 139La57 + 13C6 + 20.185 MeV [6.801 MeV]	(E_Sm:44)
150Sm62 + D* --> 142Ce58 + 10B5 + 8.566 MeV [-4.817 MeV]	(E_Sm:45)
150Sm62 + D* --> 145Nd60 + 7Li3 + 2.607 MeV [-10.776 MeV]	(E_Sm:46)
150Sm62 + D* --> 146Nd60 + 6Li3 + 2.923 MeV [-10.461 MeV]	(E_Sm:47)
152Sm62 + D* --> 148Nd60 + 6Li3 + 1.694 MeV [-11.632 MeV]	(E_Sm:48)
154Sm62 + D* --> 150Nd60 + 6Li3 + 00.277 MeV [-12.991 MeV]	(E_Sm:49)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Sm + n D reactions



----- Equations follow for Europium, Eu, element 63 -----

- 151Eu63 + D* --> 124Sn50 + 29Si14 + 48.608 MeV [35.039 MeV] (E_Eu:1)
- 151Eu63 + D* --> 128Te52 + 25Mg12 + 40.662 MeV [27.092 MeV] (E_Eu:2)
- 151Eu63 + D* --> 131Xe54 + 22Ne10 + 34.917 MeV [21.347 MeV] (E_Eu:3)
- 151Eu63 + D* --> 132Xe54 + 21Ne10 + 33.489 MeV [19.919 MeV] (E_Eu:4)
- 151Eu63 + D* --> 135Ba56 + 18O8 + 27.109 MeV [13.539 MeV] (E_Eu:5)
- 151Eu63 + D* --> 136Ba56 + 17O8 + 28.172 MeV [14.603 MeV] (E_Eu:6)
- 151Eu63 + D* --> 137Ba56 + 16O8 + 30.935 MeV [17.365 MeV] (E_Eu:7)
- 151Eu63 + D* --> 138La57 + 15N7 + 24.900 MeV [11.330 MeV] (E_Eu:8)
- 151Eu63 + D* --> 139La57 + 14N7 + 22.845 MeV [9.275 MeV] (E_Eu:9)
- 151Eu63 + D* --> 140Ce58 + 13C6 + 23.435 MeV [9.865 MeV] (E_Eu:10)
- 151Eu63 + D* --> 144Nd60 + 9Be4 + 10.882 MeV [-2.687 MeV] (E_Eu:11)
- 151Eu63 + D* --> 149Sm62 + 4He2 + 13.194 MeV [-0.376 MeV] (E_Eu:12)
- 151Eu63 + D* --> 150Sm62 + 3He2 + 00.603 MeV [-12.967 MeV] (E_Eu:13)

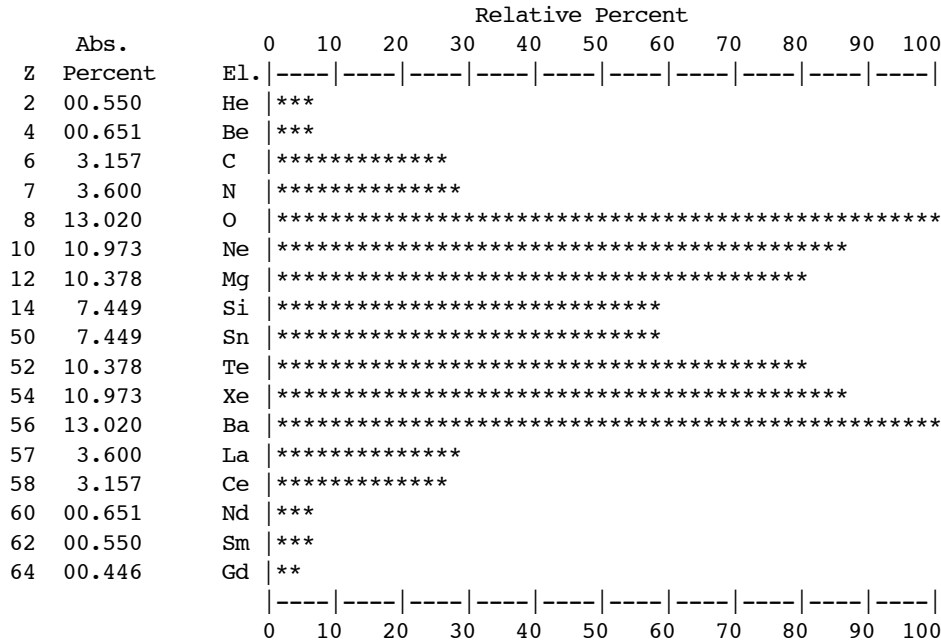
- 153Eu63 + D* --> 130Te52 + 25Mg12 + 40.306 MeV [26.796 MeV] (E_Eu:14)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

153Eu63 + D* --> 134Xe54 + 21Ne10 + 33.619 MeV [20.108 MeV]	(E_Eu:15)
153Eu63 + D* --> 137Ba56 + 18O8 + 28.265 MeV [14.754 MeV]	(E_Eu:16)
153Eu63 + D* --> 138Ba56 + 17O8 + 28.833 MeV [15.322 MeV]	(E_Eu:17)
153Eu63 + D* --> 142Ce58 + 13C6 + 21.176 MeV [7.665 MeV]	(E_Eu:18)
153Eu63 + D* --> 146Nd60 + 9Be4 + 9.346 MeV [-4.165 MeV]	(E_Eu:19)
153Eu63 + D* --> 155Gd64 + 11.839 MeV [-1.671 MeV]	(E_Eu:20)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Eu + n D reactions



----- Equations follow for Gadolinium, Gd, element 64 -----

- 152Gd64 + D* --> 131Xe54 + 23Na11 + 36.367 MeV [22.612 MeV] (E_Gd:1)
- 152Gd64 + D* --> 133Cs55 + 21Ne10 + 32.224 MeV [18.469 MeV] (E_Gd:2)
- 152Gd64 + D* --> 135Ba56 + 19F9 + 27.759 MeV [14.004 MeV] (E_Gd:3)
- 152Gd64 + D* --> 138La57 + 16O8 + 29.683 MeV [15.928 MeV] (E_Gd:4)
- 152Gd64 + D* --> 140Ce58 + 14N7 + 23.641 MeV [9.886 MeV] (E_Gd:5)
- 152Gd64 + D* --> 141Pr59 + 13C6 + 21.317 MeV [7.562 MeV] (E_Gd:6)
- 152Gd64 + D* --> 143Nd60 + 11B5 + 13.761 MeV [00.006 MeV] (E_Gd:7)
- 152Gd64 + D* --> 144Nd60 + 10B5 + 10.124 MeV [-3.631 MeV] (E_Gd:8)
- 152Gd64 + D* --> 147Sm62 + 7Li3 + 2.785 MeV [-10.969 MeV] (E_Gd:9)
- 152Gd64 + D* --> 148Sm62 + 6Li3 + 3.677 MeV [-10.078 MeV] (E_Gd:10)

- 154Gd64 + D* --> 137Ba56 + 19F9 + 28.631 MeV [14.935 MeV] (E_Gd:11)
- 154Gd64 + D* --> 138La57 + 18O8 + 26.729 MeV [13.033 MeV] (E_Gd:12)
- 154Gd64 + D* --> 139La57 + 17O8 + 27.463 MeV [13.767 MeV] (E_Gd:13)
- 154Gd64 + D* --> 142Ce58 + 14N7 + 21.098 MeV [7.402 MeV] (E_Gd:14)
- 154Gd64 + D* --> 145Nd60 + 11B5 + 12.192 MeV [-1.504 MeV] (E_Gd:15)
- 154Gd64 + D* --> 146Nd60 + 10B5 + 8.303 MeV [-5.393 MeV] (E_Gd:16)
- 154Gd64 + D* --> 149Sm62 + 7Li3 + 1.656 MeV [-12.040 MeV] (E_Gd:17)
- 154Gd64 + D* --> 150Sm62 + 6Li3 + 2.393 MeV [-11.303 MeV] (E_Gd:18)
- 154Gd64 + D* --> 155Gd64 + 1H1 + 4.211 MeV [-9.485 MeV] (E_Gd:19)

- 155Gd64 + D* --> 130Te52 + 27Al13 + 45.607 MeV [31.940 MeV] (E_Gd:20)
- 155Gd64 + D* --> 134Xe54 + 23Na11 + 38.713 MeV [25.046 MeV] (E_Gd:21)
- 155Gd64 + D* --> 138Ba56 + 19F9 + 30.808 MeV [17.141 MeV] (E_Gd:22)
- 155Gd64 + D* --> 139La57 + 18O8 + 29.071 MeV [15.405 MeV] (E_Gd:23)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

155Gd64 + D* --> 142Ce58 + 15N7 + 25.496 MeV [11.829 MeV] (E_Gd:24)
155Gd64 + D* --> 146Nd60 + 11B5 + 13.322 MeV [-0.345 MeV] (E_Gd:25)
155Gd64 + D* --> 150Sm62 + 7Li3 + 3.208 MeV [-10.459 MeV] (E_Gd:26)
155Gd64 + D* --> 153Eu63 + 4He2 + 12.007 MeV [-1.660 MeV] (E_Gd:27)
155Gd64 + D* --> 156Gd64 + 1H1 + 6.312 MeV [-7.355 MeV] (E_Gd:28)

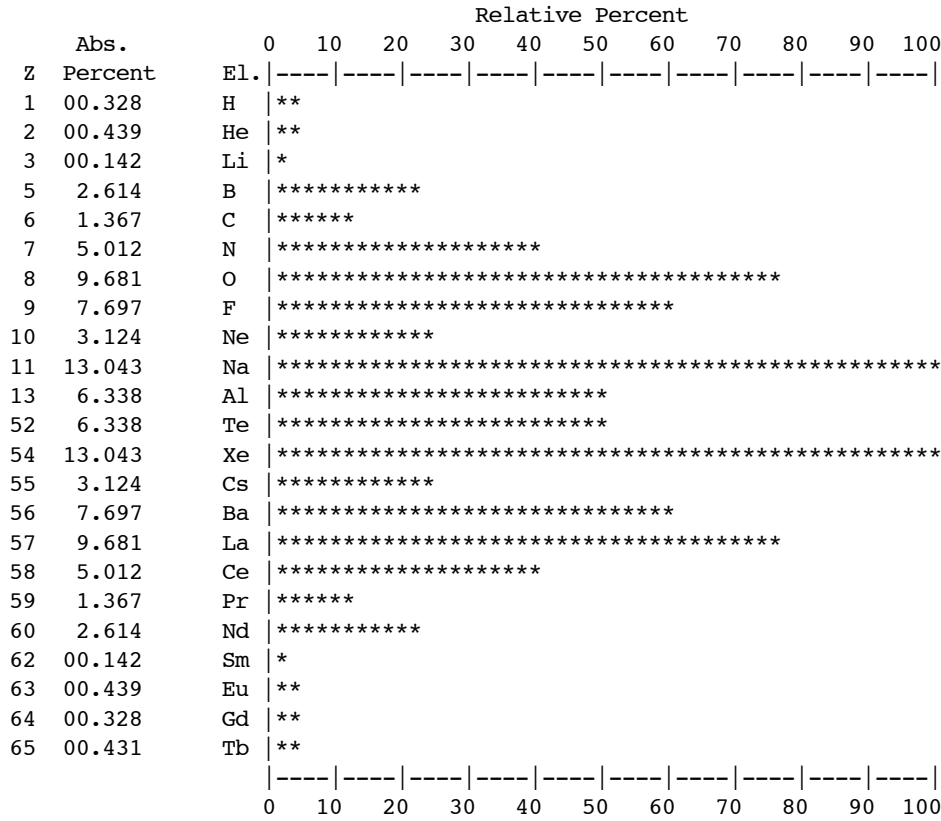
156Gd64 + D* --> 148Nd60 + 10B5 + 5.956 MeV [-7.682 MeV] (E_Gd:29)
156Gd64 + D* --> 152Sm62 + 6Li3 + 1.275 MeV [-12.362 MeV] (E_Gd:30)
156Gd64 + D* --> 157Gd64 + 1H1 + 4.135 MeV [-9.503 MeV] (E_Gd:31)

157Gd64 + D* --> 136Xe54 + 23Na11 + 38.260 MeV [24.651 MeV] (E_Gd:32)
157Gd64 + D* --> 148Nd60 + 11B5 + 11.051 MeV [-2.559 MeV] (E_Gd:33)
157Gd64 + D* --> 152Sm62 + 7Li3 + 2.166 MeV [-11.444 MeV] (E_Gd:34)
157Gd64 + D* --> 158Gd64 + 1H1 + 5.713 MeV [-7.896 MeV] (E_Gd:35)
157Gd64 + D* --> 159Tb65 + 11.844 MeV [-1.765 MeV] (E_Gd:36)

158Gd64 + D* --> 150Nd60 + 10B5 + 4.078 MeV [-9.503 MeV] (E_Gd:37)
158Gd64 + D* --> 154Sm62 + 6Li3 + 00.814 MeV [-12.767 MeV] (E_Gd:38)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Gd + n D reactions

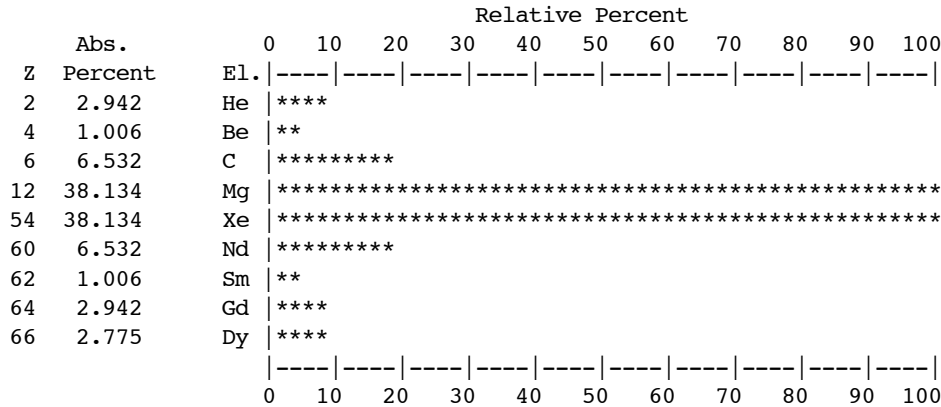


----- Equations follow for Terbium, Tb, element 65 -----

- 159Tb65 + D* --> 136Xe54 + 25Mg12 + 43.215 MeV [29.450 MeV] (E_Tb:1)
- 159Tb65 + D* --> 148Nd60 + 13C6 + 17.885 MeV [4.121 MeV] (E_Tb:2)
- 159Tb65 + D* --> 152Sm62 + 9Be4 + 7.018 MeV [-6.747 MeV] (E_Tb:3)
- 159Tb65 + D* --> 157Gd64 + 4He2 + 12.002 MeV [-1.762 MeV] (E_Tb:4)
- 159Tb65 + D* --> 161Dy66 + 11.658 MeV [-2.107 MeV] (E_Tb:5)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Tb + n D reactions



----- Equations follow for Dysprosium, Dy, element 66 -----

- 156Dy66 + D* --> 131Xe54 + 27Al13 + 48.218 MeV [34.154 MeV] (E_Dy:1)
- 156Dy66 + D* --> 133Cs55 + 25Mg12 + 43.870 MeV [29.806 MeV] (E_Dy:2)
- 156Dy66 + D* --> 135Ba56 + 23Na11 + 39.986 MeV [25.922 MeV] (E_Dy:3)
- 156Dy66 + D* --> 138La57 + 20Ne10 + 36.173 MeV [22.108 MeV] (E_Dy:4)
- 156Dy66 + D* --> 141Pr59 + 17O8 + 29.436 MeV [15.372 MeV] (E_Dy:5)
- 156Dy66 + D* --> 143Nd60 + 15N7 + 26.512 MeV [12.448 MeV] (E_Dy:6)
- 156Dy66 + D* --> 144Nd60 + 14N7 + 23.496 MeV [9.432 MeV] (E_Dy:7)
- 156Dy66 + D* --> 147Sm62 + 11B5 + 13.210 MeV [-0.854 MeV] (E_Dy:8)
- 156Dy66 + D* --> 148Sm62 + 10B5 + 9.897 MeV [-4.167 MeV] (E_Dy:9)
- 156Dy66 + D* --> 152Gd64 + 6Li3 + 3.233 MeV [-10.831 MeV] (E_Dy:10)

- 158Dy66 + D* --> 137Ba56 + 23Na11 + 39.975 MeV [25.969 MeV] (E_Dy:11)
- 158Dy66 + D* --> 138La57 + 22Ne10 + 37.273 MeV [23.268 MeV] (E_Dy:12)
- 158Dy66 + D* --> 139La57 + 21Ne10 + 35.687 MeV [21.682 MeV] (E_Dy:13)
- 158Dy66 + D* --> 145Nd60 + 15N7 + 24.059 MeV [10.054 MeV] (E_Dy:14)
- 158Dy66 + D* --> 146Nd60 + 14N7 + 20.791 MeV [6.786 MeV] (E_Dy:15)
- 158Dy66 + D* --> 149Sm62 + 11B5 + 11.198 MeV [-2.808 MeV] (E_Dy:16)
- 158Dy66 + D* --> 150Sm62 + 10B5 + 7.730 MeV [-6.275 MeV] (E_Dy:17)
- 158Dy66 + D* --> 151Eu63 + 9Be4 + 6.035 MeV [-7.970 MeV] (E_Dy:18)
- 158Dy66 + D* --> 154Gd64 + 6Li3 + 2.350 MeV [-11.655 MeV] (E_Dy:19)

- 160Dy66 + D* --> 148Nd60 + 14N7 + 18.008 MeV [4.060 MeV] (E_Dy:20)
- 160Dy66 + D* --> 152Sm62 + 10B5 + 6.176 MeV [-7.772 MeV] (E_Dy:21)
- 160Dy66 + D* --> 153Eu63 + 9Be4 + 5.483 MeV [-8.464 MeV] (E_Dy:22)
- 160Dy66 + D* --> 155Gd64 + 7Li3 + 00.627 MeV [-13.321 MeV] (E_Dy:23)
- 160Dy66 + D* --> 156Gd64 + 6Li3 + 1.913 MeV [-12.034 MeV] (E_Dy:24)
- 160Dy66 + D* --> 161Dy66 + 1H1 + 4.230 MeV [-9.718 MeV] (E_Dy:25)

- 161Dy66 + D* --> 136Xe54 + 27Al13 + 48.696 MeV [34.778 MeV] (E_Dy:26)
- 161Dy66 + D* --> 148Nd60 + 15N7 + 22.387 MeV [8.468 MeV] (E_Dy:27)
- 161Dy66 + D* --> 152Sm62 + 11B5 + 11.175 MeV [-2.743 MeV] (E_Dy:28)
- 161Dy66 + D* --> 156Gd64 + 7Li3 + 2.709 MeV [-11.210 MeV] (E_Dy:29)
- 161Dy66 + D* --> 157Gd64 + 6Li3 + 1.818 MeV [-12.100 MeV] (E_Dy:30)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

161Dy66 + D* --> 159Tb65 + 4He2 + 12.189 MeV [-1.730 MeV] (E_Dy:31)
161Dy66 + D* --> 162Dy66 + 1H1 + 5.972 MeV [-7.946 MeV] (E_Dy:32)

162Dy66 + D* --> 150Nd60 + 14N7 + 15.775 MeV [1.885 MeV] (E_Dy:33)
162Dy66 + D* --> 154Sm62 + 10B5 + 5.360 MeV [-8.531 MeV] (E_Dy:34)
162Dy66 + D* --> 157Gd64 + 7Li3 + 00.871 MeV [-13.019 MeV] (E_Dy:35)
162Dy66 + D* --> 158Gd64 + 6Li3 + 1.559 MeV [-12.332 MeV] (E_Dy:36)
162Dy66 + D* --> 163Dy66 + 1H1 + 4.046 MeV [-9.844 MeV] (E_Dy:37)

163Dy66 + D* --> 150Nd60 + 15N7 + 20.337 MeV [6.475 MeV] (E_Dy:38)
163Dy66 + D* --> 154Sm62 + 11B5 + 10.543 MeV [-3.319 MeV] (E_Dy:39)
163Dy66 + D* --> 158Gd64 + 7Li3 + 2.538 MeV [-11.324 MeV] (E_Dy:40)
163Dy66 + D* --> 164Dy66 + 1H1 + 5.434 MeV [-8.429 MeV] (E_Dy:41)
163Dy66 + D* --> 165Ho67 + 11.654 MeV [-2.208 MeV] (E_Dy:42)

164Dy66 + D* --> 160Gd64 + 6Li3 + 1.024 MeV [-12.810 MeV] (E_Dy:43)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Dy + n D reactions

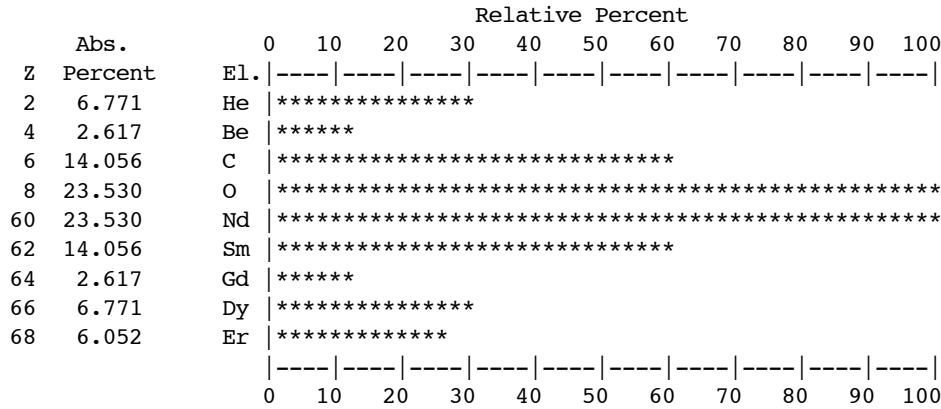
Z	Abs. Percent	El.	Relative Percent																	
			0	10	20	30	40	50	60	70	80	90	100							
1	00.258	H	**																	
2	00.384	He	**																	
3	00.106	Li	*																	
4	00.170	Be	*																	
5	1.949	B	*****																	
7	9.617	N	*****																	
8	2.195	O	*****																	
10	10.116	Ne	*****																	
11	8.132	Na	*****																	
12	4.875	Mg	*****																	
13	12.021	Al	*****																	
54	12.021	Xe	*****																	
55	4.875	Cs	*****																	
56	8.132	Ba	*****																	
57	10.116	La	*****																	
59	2.195	Pr	*****																	
60	9.617	Nd	*****																	
62	1.949	Sm	*****																	
63	00.170	Eu	*																	
64	00.106	Gd	*																	
65	00.384	Tb	**																	
66	00.258	Dy	**																	
67	00.354	Ho	**																	

----- Equations follow for Holmium, Ho, element 67 -----

- 165Ho67 + D* --> 150Nd60 + 17O8 + 22.730 MeV [8.714 MeV] (E_Ho:1)
- 165Ho67 + D* --> 154Sm62 + 13C6 + 17.568 MeV [3.552 MeV] (E_Ho:2)
- 165Ho67 + D* --> 158Gd64 + 9Be4 + 7.580 MeV [-6.436 MeV] (E_Ho:3)
- 165Ho67 + D* --> 163Dy66 + 4He2 + 12.193 MeV [-1.823 MeV] (E_Ho:4)
- 165Ho67 + D* --> 167Er68 + 11.528 MeV [-2.488 MeV] (E_Ho:5)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Ho + n D reactions



----- Equations follow for Erbium, Er, element 68 -----

- 162Er68 + D* --> 124Sn50 + 40K19 + 68.565 MeV [54.254 MeV] (E_Er:1)
- 162Er68 + D* --> 137Ba56 + 27Al13 + 51.711 MeV [37.400 MeV] (E_Er:2)
- 162Er68 + D* --> 138La57 + 26Mg12 + 49.532 MeV [35.221 MeV] (E_Er:3)
- 162Er68 + D* --> 139La57 + 25Mg12 + 47.217 MeV [32.906 MeV] (E_Er:4)
- 162Er68 + D* --> 145Nd60 + 19F9 + 29.718 MeV [15.406 MeV] (E_Er:5)
- 162Er68 + D* --> 149Sm62 + 15N7 + 23.834 MeV [9.522 MeV] (E_Er:6)
- 162Er68 + D* --> 150Sm62 + 14N7 + 20.987 MeV [6.676 MeV] (E_Er:7)
- 162Er68 + D* --> 151Eu63 + 13C6 + 18.327 MeV [4.016 MeV] (E_Er:8)
- 162Er68 + D* --> 154Gd64 + 10B5 + 8.456 MeV [-5.856 MeV] (E_Er:9)
- 162Er68 + D* --> 158Dy66 + 6Li3 + 3.118 MeV [-11.193 MeV] (E_Er:10)

- 164Er68 + D* --> 152Sm62 + 14N7 + 19.092 MeV [4.838 MeV] (E_Er:11)
- 164Er68 + D* --> 153Eu63 + 13C6 + 17.435 MeV [3.181 MeV] (E_Er:12)
- 164Er68 + D* --> 155Gd64 + 11B5 + 10.595 MeV [-3.658 MeV] (E_Er:13)
- 164Er68 + D* --> 156Gd64 + 10B5 + 7.678 MeV [-6.576 MeV] (E_Er:14)
- 164Er68 + D* --> 160Dy66 + 6Li3 + 2.777 MeV [-11.476 MeV] (E_Er:15)

- 166Er68 + D* --> 154Sm62 + 14N7 + 17.802 MeV [3.605 MeV] (E_Er:16)
- 166Er68 + D* --> 157Gd64 + 11B5 + 10.367 MeV [-3.830 MeV] (E_Er:17)
- 166Er68 + D* --> 158Gd64 + 10B5 + 6.850 MeV [-7.347 MeV] (E_Er:18)
- 166Er68 + D* --> 159Tb65 + 9Be4 + 6.396 MeV [-7.801 MeV] (E_Er:19)
- 166Er68 + D* --> 161Dy66 + 7Li3 + 1.357 MeV [-12.840 MeV] (E_Er:20)
- 166Er68 + D* --> 162Dy66 + 6Li3 + 2.304 MeV [-11.893 MeV] (E_Er:21)
- 166Er68 + D* --> 167Er68 + 1H1 + 4.212 MeV [-9.985 MeV] (E_Er:22)

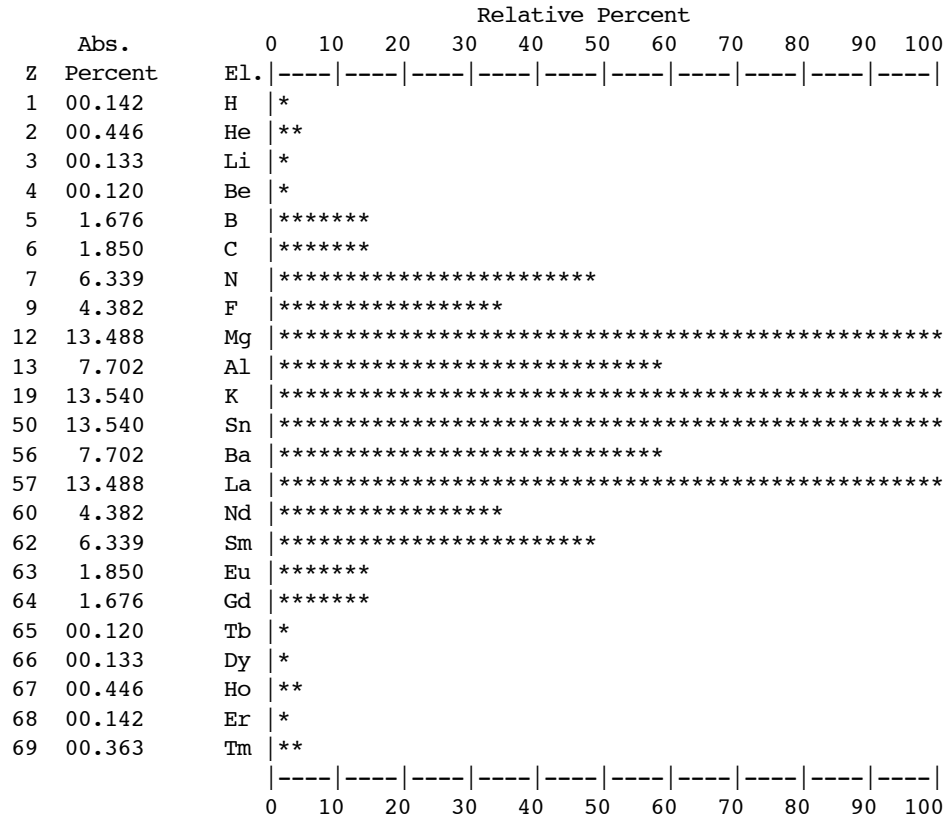
- 167Er68 + D* --> 150Nd60 + 19F9 + 25.016 MeV [10.847 MeV] (E_Er:23)
- 167Er68 + D* --> 154Sm62 + 15N7 + 22.199 MeV [8.030 MeV] (E_Er:24)
- 167Er68 + D* --> 158Gd64 + 11B5 + 11.868 MeV [-2.301 MeV] (E_Er:25)
- 167Er68 + D* --> 162Dy66 + 7Li3 + 3.118 MeV [-11.051 MeV] (E_Er:26)
- 167Er68 + D* --> 163Dy66 + 6Li3 + 2.139 MeV [-12.030 MeV] (E_Er:27)
- 167Er68 + D* --> 165Ho67 + 4He2 + 12.319 MeV [-1.850 MeV] (E_Er:28)
- 167Er68 + D* --> 168Er68 + 1H1 + 5.547 MeV [-8.622 MeV] (E_Er:29)
- 167Er68 + D* --> 169Tm69 + 11.119 MeV [-3.050 MeV] (E_Er:30)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

168Er68 + D* --> 160Gd64 + 10B5 + 6.037 MeV [-8.104 MeV] (E_Er:31)
168Er68 + D* --> 163Dy66 + 7Li3 + 1.617 MeV [-12.524 MeV] (E_Er:32)
168Er68 + D* --> 164Dy66 + 6Li3 + 2.025 MeV [-12.115 MeV] (E_Er:33)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Er + n D reactions

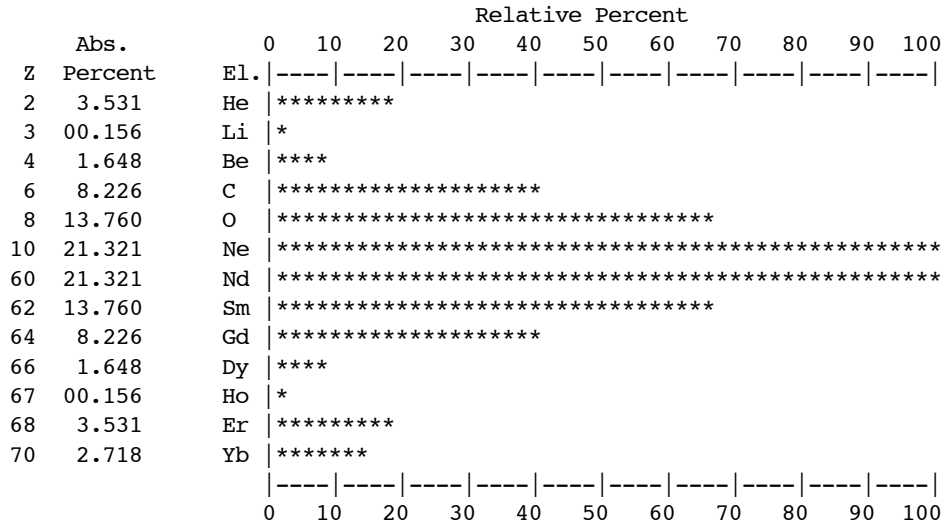


----- Equations follow for Thulium, Tm, element 69 -----

- 169Tm69 + D* --> 150Nd60 + 21Ne10 + 31.277 MeV [16.956 MeV] (E_Tm:1)
- 169Tm69 + D* --> 154Sm62 + 17O8 + 25.126 MeV [10.805 MeV] (E_Tm:2)
- 169Tm69 + D* --> 158Gd64 + 13C6 + 19.427 MeV [5.107 MeV] (E_Tm:3)
- 169Tm69 + D* --> 162Dy66 + 9Be4 + 8.695 MeV [-5.626 MeV] (E_Tm:4)
- 169Tm69 + D* --> 165Ho67 + 6Li3 + 2.674 MeV [-11.647 MeV] (E_Tm:5)
- 169Tm69 + D* --> 167Er68 + 4He2 + 12.728 MeV [-1.593 MeV] (E_Tm:6)
- 169Tm69 + D* --> 171Yb70 + 11.168 MeV [-3.153 MeV] (E_Tm:7)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Tm + n D reactions



----- Equations follow for Ytterbium, Yb, element 70 -----

- 168Yb70 + D* --> 130Te52 + 40K19 + 72.448 MeV [57.891 MeV] (E_Yb:1)
- 168Yb70 + D* --> 153Eu63 + 17O8 + 25.743 MeV [11.187 MeV] (E_Yb:2)
- 168Yb70 + D* --> 155Gd64 + 15N7 + 23.537 MeV [8.980 MeV] (E_Yb:3)
- 168Yb70 + D* --> 156Gd64 + 14N7 + 21.240 MeV [6.683 MeV] (E_Yb:4)
- 168Yb70 + D* --> 160Dy66 + 10B5 + 9.188 MeV [-5.368 MeV] (E_Yb:5)
- 168Yb70 + D* --> 164Er68 + 6Li3 + 3.424 MeV [-11.133 MeV] (E_Yb:6)

- 170Yb70 + D* --> 157Gd64 + 15N7 + 23.096 MeV [8.596 MeV] (E_Yb:7)
- 170Yb70 + D* --> 158Gd64 + 14N7 + 20.200 MeV [5.700 MeV] (E_Yb:8)
- 170Yb70 + D* --> 159Tb65 + 13C6 + 18.781 MeV [4.281 MeV] (E_Yb:9)
- 170Yb70 + D* --> 161Dy66 + 11B5 + 11.760 MeV [-2.740 MeV] (E_Yb:10)
- 170Yb70 + D* --> 162Dy66 + 10B5 + 8.503 MeV [-5.997 MeV] (E_Yb:11)
- 170Yb70 + D* --> 166Er68 + 6Li3 + 3.212 MeV [-11.289 MeV] (E_Yb:12)
- 170Yb70 + D* --> 171Yb70 + 1H1 + 4.390 MeV [-10.110 MeV] (E_Yb:13)

- 171Yb70 + D* --> 136Xe54 + 37Cl17 + 72.010 MeV [57.538 MeV] (E_Yb:14)
- 171Yb70 + D* --> 150Nd60 + 23Na11 + 37.043 MeV [22.571 MeV] (E_Yb:15)
- 171Yb70 + D* --> 154Sm62 + 19F9 + 27.773 MeV [13.300 MeV] (E_Yb:16)
- 171Yb70 + D* --> 158Gd64 + 15N7 + 24.419 MeV [9.947 MeV] (E_Yb:17)
- 171Yb70 + D* --> 162Dy66 + 11B5 + 13.342 MeV [-1.130 MeV] (E_Yb:18)
- 171Yb70 + D* --> 163Dy66 + 10B5 + 8.159 MeV [-6.313 MeV] (E_Yb:19)
- 171Yb70 + D* --> 166Er68 + 7Li3 + 3.847 MeV [-10.625 MeV] (E_Yb:20)
- 171Yb70 + D* --> 167Er68 + 6Li3 + 3.034 MeV [-11.439 MeV] (E_Yb:21)
- 171Yb70 + D* --> 169Tm69 + 4He2 + 12.679 MeV [-1.794 MeV] (E_Yb:22)
- 171Yb70 + D* --> 172Yb70 + 1H1 + 5.795 MeV [-8.677 MeV] (E_Yb:23)

- 172Yb70 + D* --> 160Gd64 + 14N7 + 18.961 MeV [4.516 MeV] (E_Yb:24)
- 172Yb70 + D* --> 163Dy66 + 11B5 + 11.594 MeV [-2.850 MeV] (E_Yb:25)
- 172Yb70 + D* --> 164Dy66 + 10B5 + 7.798 MeV [-6.646 MeV] (E_Yb:26)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

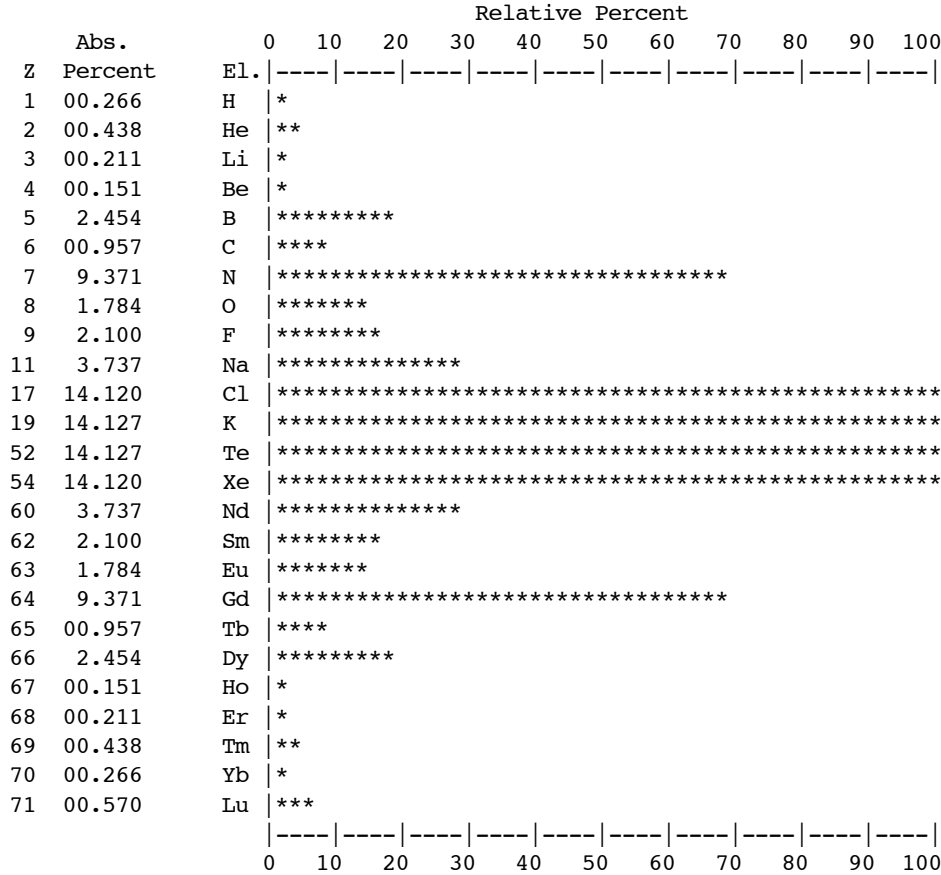
172Yb70 + D* --> 165Ho67 + 9Be4 + 7.432 MeV [-7.012 MeV] (E_Yb:27)
172Yb70 + D* --> 167Er68 + 7Li3 + 2.264 MeV [-12.180 MeV] (E_Yb:28)
172Yb70 + D* --> 168Er68 + 6Li3 + 2.785 MeV [-11.659 MeV] (E_Yb:29)
172Yb70 + D* --> 173Yb70 + 1H1 + 4.143 MeV [-10.302 MeV] (E_Yb:30)

173Yb70 + D* --> 160Gd64 + 15N7 + 23.427 MeV [9.010 MeV] (E_Yb:31)
173Yb70 + D* --> 164Dy66 + 11B5 + 12.885 MeV [-1.532 MeV] (E_Yb:32)
173Yb70 + D* --> 168Er68 + 7Li3 + 3.668 MeV [-10.749 MeV] (E_Yb:33)
173Yb70 + D* --> 174Yb70 + 1H1 + 5.240 MeV [-9.177 MeV] (E_Yb:34)
173Yb70 + D* --> 175Lu71 + 10.750 MeV [-3.667 MeV] (E_Yb:35)

174Yb70 + D* --> 170Er68 + 6Li3 + 2.214 MeV [-12.176 MeV] (E_Yb:36)
174Yb70 + D* --> 176Lu71 + 9.573 MeV [-4.816 MeV] (E_Yb:37)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Yb + n D reactions



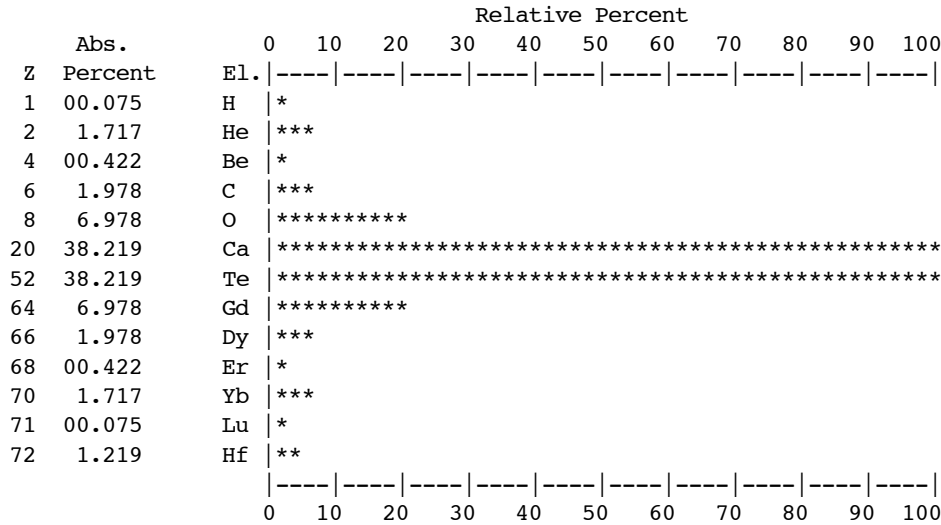
----- Equations follow for Lutetium, Lu, element 71 -----

- 175Lu71 + D* --> 160Gd64 + 1708 + 26.722 MeV [12.155 MeV] (E_Lu:1)
- 175Lu71 + D* --> 164Dy66 + 13C6 + 20.813 MeV [6.246 MeV] (E_Lu:2)
- 175Lu71 + D* --> 168Er68 + 9Be4 + 9.614 MeV [-4.953 MeV] (E_Lu:3)
- 175Lu71 + D* --> 173Yb70 + 4He2 + 13.096 MeV [-1.471 MeV] (E_Lu:4)
- 175Lu71 + D* --> 176Lu71 + 1H1 + 4.063 MeV [-10.504 MeV] (E_Lu:5)
- 175Lu71 + D* --> 177Hf72 + 10.855 MeV [-3.713 MeV] (E_Lu:6)

- 176Lu71 + D* --> 130Te52 + 48Ca20 + 91.314 MeV [76.774 MeV] (E_Lu:7)
- 176Lu71 + D* --> 160Gd64 + 1808 + 28.479 MeV [13.938 MeV] (E_Lu:8)
- 176Lu71 + D* --> 174Yb70 + 4He2 + 14.273 MeV [-0.267 MeV] (E_Lu:9)
- 176Lu71 + D* --> 178Hf72 + 12.193 MeV [-2.348 MeV] (E_Lu:10)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Lu + n D reactions



----- Equations follow for Hafnium, Hf, element 72 -----

- 174Hf72 + D* --> 136Xe54 + 40K19 + 77.249 MeV [62.449 MeV] (E_Hf:1)
- 174Hf72 + D* --> 157Gd64 + 19F9 + 29.607 MeV [14.807 MeV] (E_Hf:2)
- 174Hf72 + D* --> 159Tb65 + 17O8 + 27.637 MeV [12.836 MeV] (E_Hf:3)
- 174Hf72 + D* --> 161Dy66 + 15N7 + 25.249 MeV [10.448 MeV] (E_Hf:4)
- 174Hf72 + D* --> 162Dy66 + 14N7 + 22.612 MeV [7.812 MeV] (E_Hf:5)
- 174Hf72 + D* --> 166Er68 + 10B5 + 10.170 MeV [-4.631 MeV] (E_Hf:6)
- 174Hf72 + D* --> 170Yb70 + 6Li3 + 3.971 MeV [-10.829 MeV] (E_Hf:7)

- 176Hf72 + D* --> 163Dy66 + 15N7 + 24.843 MeV [10.098 MeV] (E_Hf:8)
- 176Hf72 + D* --> 164Dy66 + 14N7 + 21.668 MeV [6.923 MeV] (E_Hf:9)
- 176Hf72 + D* --> 165Ho67 + 13C6 + 20.338 MeV [5.593 MeV] (E_Hf:10)
- 176Hf72 + D* --> 167Er68 + 11B5 + 13.187 MeV [-1.558 MeV] (E_Hf:11)
- 176Hf72 + D* --> 168Er68 + 10B5 + 9.504 MeV [-5.241 MeV] (E_Hf:12)
- 176Hf72 + D* --> 169Tm69 + 9Be4 + 8.491 MeV [-6.254 MeV] (E_Hf:13)
- 176Hf72 + D* --> 171Yb70 + 7Li3 + 2.962 MeV [-11.783 MeV] (E_Hf:14)
- 176Hf72 + D* --> 172Yb70 + 6Li3 + 3.732 MeV [-11.013 MeV] (E_Hf:15)
- 176Hf72 + D* --> 177Hf72 + 1H1 + 4.159 MeV [-10.586 MeV] (E_Hf:16)

- 177Hf72 + D* --> 160Gd64 + 19F9 + 29.682 MeV [14.965 MeV] (E_Hf:17)
- 177Hf72 + D* --> 164Dy66 + 15N7 + 26.118 MeV [11.400 MeV] (E_Hf:18)
- 177Hf72 + D* --> 168Er68 + 11B5 + 14.575 MeV [-0.143 MeV] (E_Hf:19)
- 177Hf72 + D* --> 172Yb70 + 7Li3 + 4.598 MeV [-10.119 MeV] (E_Hf:20)
- 177Hf72 + D* --> 173Yb70 + 6Li3 + 3.716 MeV [-11.002 MeV] (E_Hf:21)
- 177Hf72 + D* --> 175Lu71 + 4He2 + 12.992 MeV [-1.726 MeV] (E_Hf:22)
- 177Hf72 + D* --> 178Hf72 + 1H1 + 5.401 MeV [-9.316 MeV] (E_Hf:23)

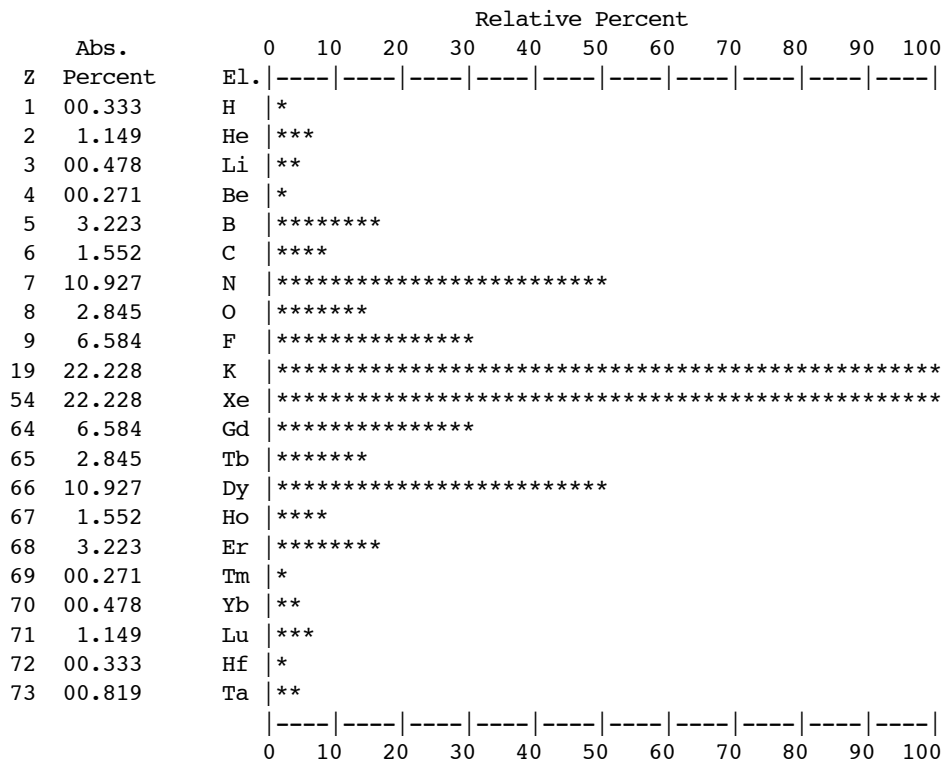
- 178Hf72 + D* --> 170Er68 + 10B5 + 8.755 MeV [-5.935 MeV] (E_Hf:24)
- 178Hf72 + D* --> 173Yb70 + 7Li3 + 3.340 MeV [-11.351 MeV] (E_Hf:25)
- 178Hf72 + D* --> 174Yb70 + 6Li3 + 3.554 MeV [-11.136 MeV] (E_Hf:26)

Report E - Energetically Feasible Aneutronic $X + n D^* \rightarrow Y + Z$ Reactions, $n = 1$ to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

$178\text{Hf}72 + D^* \rightarrow 176\text{Lu}71 + 4\text{He}2 + 11.654 \text{ MeV} [-3.036 \text{ MeV}]$	(E_Hf:27)
$178\text{Hf}72 + D^* \rightarrow 179\text{Hf}72 + 1\text{H}1 + 3.874 \text{ MeV} [-10.816 \text{ MeV}]$	(E_Hf:28)
$178\text{Hf}72 + D^* \rightarrow 180\text{Ta}73 + 9.628 \text{ MeV} [-5.063 \text{ MeV}]$	(E_Hf:29)
$179\text{Hf}72 + D^* \rightarrow 170\text{Er}68 + 11\text{B}5 + 14.110 \text{ MeV} [-0.553 \text{ MeV}]$	(E_Hf:30)
$179\text{Hf}72 + D^* \rightarrow 174\text{Yb}70 + 7\text{Li}3 + 4.705 \text{ MeV} [-9.958 \text{ MeV}]$	(E_Hf:31)
$179\text{Hf}72 + D^* \rightarrow 180\text{Hf}72 + 1\text{H}1 + 5.163 \text{ MeV} [-9.500 \text{ MeV}]$	(E_Hf:32)
$179\text{Hf}72 + D^* \rightarrow 181\text{Ta}73 + 11.105 \text{ MeV} [-3.558 \text{ MeV}]$	(E_Hf:33)
$180\text{Hf}72 + D^* \rightarrow 176\text{Yb}70 + 6\text{Li}3 + 2.755 \text{ MeV} [-11.882 \text{ MeV}]$	(E_Hf:34)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Hf + n D reactions



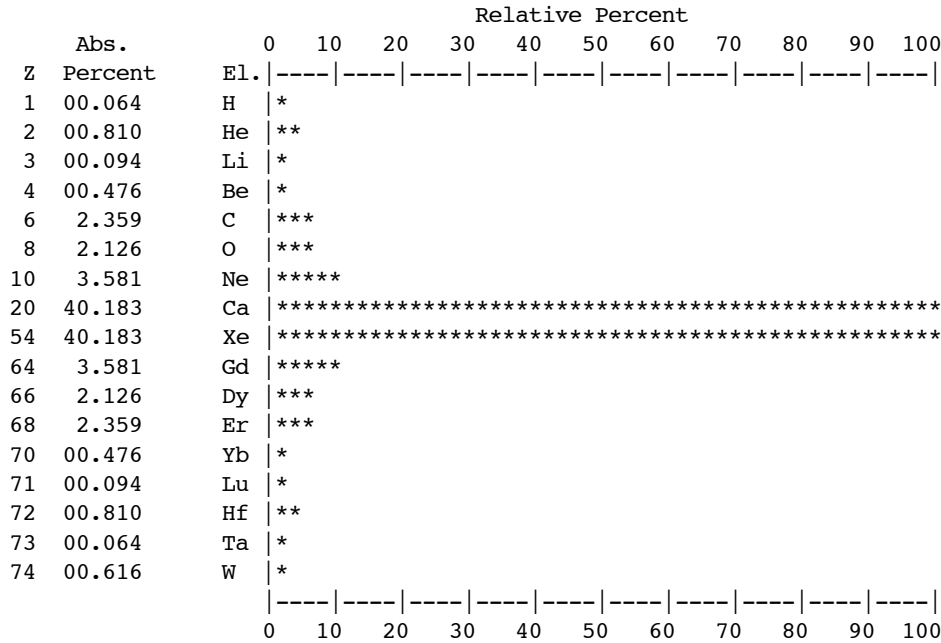
----- Equations follow for Tantalum, Ta, element 73 -----

- 180Ta73 + D* --> 134Xe54 + 48Ca20 + 96.538 MeV [81.699 MeV] (E_Ta:1)
- 180Ta73 + D* --> 136Xe54 + 46Ca20 + 93.760 MeV [78.920 MeV] (E_Ta:2)
- 180Ta73 + D* --> 160Gd64 + 22Ne10 + 40.173 MeV [25.333 MeV] (E_Ta:3)
- 180Ta73 + D* --> 164Dy66 + 18O8 + 30.954 MeV [16.115 MeV] (E_Ta:4)
- 180Ta73 + D* --> 170Er68 + 12C6 + 24.314 MeV [9.475 MeV] (E_Ta:5)
- 180Ta73 + D* --> 173Yb70 + 9Be4 + 10.408 MeV [-4.431 MeV] (E_Ta:6)
- 180Ta73 + D* --> 175Lu71 + 7Li3 + 4.462 MeV [-10.377 MeV] (E_Ta:7)
- 180Ta73 + D* --> 176Lu71 + 6Li3 + 3.500 MeV [-11.339 MeV] (E_Ta:8)
- 180Ta73 + D* --> 178Hf72 + 4He2 + 14.219 MeV [-0.621 MeV] (E_Ta:9)
- 180Ta73 + D* --> 181Ta73 + 1H1 + 5.352 MeV [-9.487 MeV] (E_Ta:10)
- 180Ta73 + D* --> 182W74 + 12.447 MeV [-2.392 MeV] (E_Ta:11)

- 181Ta73 + D* --> 170Er68 + 13C6 + 21.684 MeV [6.871 MeV] (E_Ta:12)
- 181Ta73 + D* --> 174Yb70 + 9Be4 + 10.296 MeV [-4.516 MeV] (E_Ta:13)
- 181Ta73 + D* --> 176Lu71 + 7Li3 + 3.173 MeV [-11.639 MeV] (E_Ta:14)
- 181Ta73 + D* --> 179Hf72 + 4He2 + 12.741 MeV [-2.071 MeV] (E_Ta:15)
- 181Ta73 + D* --> 183W74 + 11.061 MeV [-3.751 MeV] (E_Ta:16)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Ta + n D reactions



----- Equations follow for Tungsten, W, element 74 -----

- 180W74 + D* --> 163Dy66 + 19F9 + 31.365 MeV [16.322 MeV] (E_W:1)
- 180W74 + D* --> 165Ho67 + 17O8 + 29.205 MeV [14.162 MeV] (E_W:2)
- 180W74 + D* --> 167Er68 + 15N7 + 26.687 MeV [11.644 MeV] (E_W:3)
- 180W74 + D* --> 168Er68 + 14N7 + 23.625 MeV [8.582 MeV] (E_W:4)
- 180W74 + D* --> 169Tm69 + 13C6 + 21.646 MeV [6.603 MeV] (E_W:5)
- 180W74 + D* --> 171Yb70 + 11B5 + 14.135 MeV [-0.907 MeV] (E_W:6)
- 180W74 + D* --> 172Yb70 + 10B5 + 10.701 MeV [-4.342 MeV] (E_W:7)
- 180W74 + D* --> 176Hf72 + 6Li3 + 3.982 MeV [-11.061 MeV] (E_W:8)

- 182W74 + D* --> 170Er68 + 14N7 + 22.139 MeV [7.151 MeV] (E_W:9)
- 182W74 + D* --> 173Yb70 + 11B5 + 13.777 MeV [-1.211 MeV] (E_W:10)
- 182W74 + D* --> 174Yb70 + 10B5 + 9.787 MeV [-5.201 MeV] (E_W:11)
- 182W74 + D* --> 175Lu71 + 9Be4 + 8.711 MeV [-6.277 MeV] (E_W:12)
- 182W74 + D* --> 177Hf72 + 7Li3 + 2.870 MeV [-12.118 MeV] (E_W:13)
- 182W74 + D* --> 178Hf72 + 6Li3 + 3.246 MeV [-11.742 MeV] (E_W:14)
- 182W74 + D* --> 180Ta73 + 4He2 + 11.399 MeV [-3.589 MeV] (E_W:15)
- 182W74 + D* --> 183W74 + 1H1 + 3.966 MeV [-11.022 MeV] (E_W:16)

- 183W74 + D* --> 170Er68 + 15N7 + 26.782 MeV [11.821 MeV] (E_W:17)
- 183W74 + D* --> 174Yb70 + 11B5 + 15.050 MeV [00.089 MeV] (E_W:18)
- 183W74 + D* --> 176Lu71 + 9Be4 + 8.808 MeV [-6.153 MeV] (E_W:19)
- 183W74 + D* --> 178Hf72 + 7Li3 + 4.305 MeV [-10.656 MeV] (E_W:20)
- 183W74 + D* --> 179Hf72 + 6Li3 + 3.154 MeV [-11.807 MeV] (E_W:21)
- 183W74 + D* --> 181Ta73 + 4He2 + 12.785 MeV [-2.176 MeV] (E_W:22)
- 183W74 + D* --> 184W74 + 1H1 + 5.187 MeV [-9.774 MeV] (E_W:23)

Report E - Energetically Feasible Aneutronic $X + n D^* \rightarrow Y + Z$ Reactions, $n = 1$ to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

$183W74 + D^* \rightarrow 185Re75 + 10.591 \text{ MeV} [-4.370 \text{ MeV}]$ (E_W:24)

$184W74 + D^* \rightarrow 176Yb70 + 10B5 + 8.872 \text{ MeV} [-6.062 \text{ MeV}]$ (E_W:25)

$184W74 + D^* \rightarrow 179Hf72 + 7Li3 + 2.992 \text{ MeV} [-11.942 \text{ MeV}]$ (E_W:26)

$184W74 + D^* \rightarrow 180Hf72 + 6Li3 + 3.130 \text{ MeV} [-11.804 \text{ MeV}]$ (E_W:27)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for W + n D reactions

Z	Abs. Percent	El.	Relative Percent																	
			0	10	20	30	40	50	60	70	80	90	100							
1	00.340	H	*																	
2	2.336	He	*****																	
3	00.651	Li	**																	
4	1.222	Be	****																	
5	7.185	B	*****																	
6	3.696	C	*****																	
7	19.635	N	*****																	
8	6.728	O	*****																	
9	7.760	F	*****																	
66	7.760	Dy	*****																	
67	6.728	Ho	*****																	
68	19.635	Er	*****																	
69	3.696	Tm	*****																	
70	7.185	Yb	*****																	
71	1.222	Lu	****																	
72	00.651	Hf	**																	
73	2.336	Ta	*****																	
74	00.340	W	*																	
75	00.894	Re	***																	

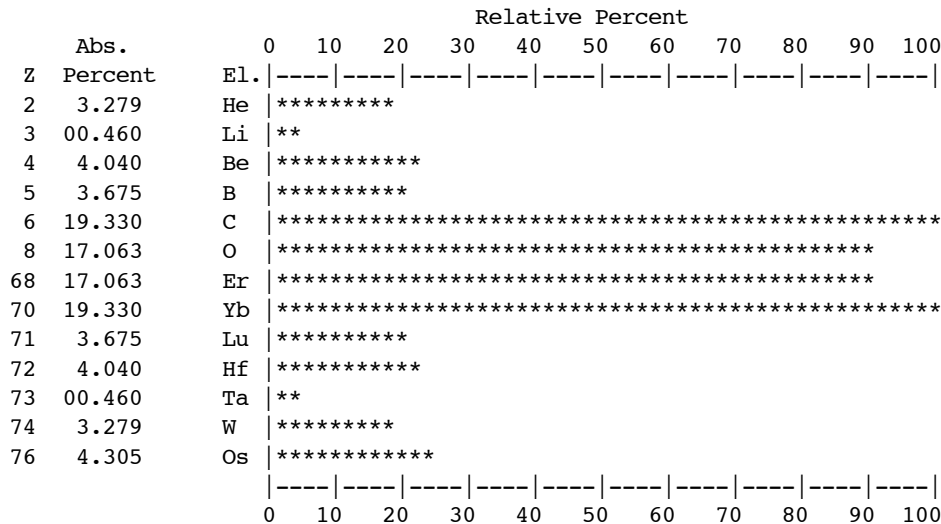
----- Equations follow for Rhenium, Re, element 75 -----

- 185Re75 + D* --> 170Er68 + 17O8 + 30.237 MeV [15.128 MeV] (E_Re:1)
- 185Re75 + D* --> 174Yb70 + 13C6 + 23.138 MeV [8.029 MeV] (E_Re:2)
- 185Re75 + D* --> 176Lu71 + 11B5 + 14.033 MeV [-1.076 MeV] (E_Re:3)
- 185Re75 + D* --> 178Hf72 + 9Be4 + 10.410 MeV [-4.699 MeV] (E_Re:4)
- 185Re75 + D* --> 180Ta73 + 7Li3 + 3.342 MeV [-11.767 MeV] (E_Re:5)
- 185Re75 + D* --> 181Ta73 + 6Li3 + 3.668 MeV [-11.441 MeV] (E_Re:6)
- 185Re75 + D* --> 183W74 + 4He2 + 13.256 MeV [-1.853 MeV] (E_Re:7)
- 185Re75 + D* --> 184W74 + 3He2 + 00.090 MeV [-15.019 MeV] (E_Re:8)
- 185Re75 + D* --> 187Os76 + 10.532 MeV [-4.577 MeV] (E_Re:9)

- 187Re75 + D* --> 176Yb70 + 13C6 + 22.289 MeV [7.234 MeV] (E_Re:10)
- 187Re75 + D* --> 180Hf72 + 9Be4 + 10.361 MeV [-4.695 MeV] (E_Re:11)
- 187Re75 + D* --> 189Os76 + 10.905 MeV [-4.150 MeV] (E_Re:12)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Re + n D reactions



----- Equations follow for Osmium, Os, element 76 -----

- 184Os76 + D* --> 136Xe54 + 50V23 + 104.526 MeV [89.189 MeV] (E_Os:1)
- 184Os76 + D* --> 138La57 + 48Ca20 + 99.618 MeV [84.281 MeV] (E_Os:2)
- 184Os76 + D* --> 163Dy66 + 23Na11 + 44.796 MeV [29.458 MeV] (E_Os:3)
- 184Os76 + D* --> 165Ho67 + 21Ne10 + 39.516 MeV [24.178 MeV] (E_Os:4)
- 184Os76 + D* --> 167Er68 + 19F9 + 33.664 MeV [18.326 MeV] (E_Os:5)
- 184Os76 + D* --> 169Tm69 + 17O8 + 30.968 MeV [15.631 MeV] (E_Os:6)
- 184Os76 + D* --> 171Yb70 + 15N7 + 28.090 MeV [12.753 MeV] (E_Os:7)
- 184Os76 + D* --> 172Yb70 + 14N7 + 25.276 MeV [9.939 MeV] (E_Os:8)
- 184Os76 + D* --> 176Hf72 + 10B5 + 11.406 MeV [-3.931 MeV] (E_Os:9)
- 184Os76 + D* --> 180W74 + 6Li3 + 4.437 MeV [-10.900 MeV] (E_Os:10)

- 186Os76 + D* --> 173Yb70 + 15N7 + 27.591 MeV [12.308 MeV] (E_Os:11)
- 186Os76 + D* --> 174Yb70 + 14N7 + 24.222 MeV [8.939 MeV] (E_Os:12)
- 186Os76 + D* --> 175Lu71 + 13C6 + 22.182 MeV [6.899 MeV] (E_Os:13)
- 186Os76 + D* --> 176Lu71 + 12C6 + 23.524 MeV [8.240 MeV] (E_Os:14)
- 186Os76 + D* --> 177Hf72 + 11B5 + 14.358 MeV [-0.925 MeV] (E_Os:15)
- 186Os76 + D* --> 178Hf72 + 10B5 + 10.530 MeV [-4.753 MeV] (E_Os:16)
- 186Os76 + D* --> 182W74 + 6Li3 + 4.297 MeV [-10.986 MeV] (E_Os:17)
- 186Os76 + D* --> 187Os76 + 1H1 + 4.065 MeV [-11.218 MeV] (E_Os:18)

- 187Os76 + D* --> 170Er68 + 19F9 + 33.520 MeV [18.263 MeV] (E_Os:19)
- 187Os76 + D* --> 174Yb70 + 15N7 + 28.766 MeV [13.510 MeV] (E_Os:20)
- 187Os76 + D* --> 176Lu71 + 13C6 + 22.180 MeV [6.924 MeV] (E_Os:21)
- 187Os76 + D* --> 178Hf72 + 11B5 + 15.694 MeV [00.438 MeV] (E_Os:22)
- 187Os76 + D* --> 179Hf72 + 10B5 + 10.339 MeV [-4.917 MeV] (E_Os:23)
- 187Os76 + D* --> 180Ta73 + 9Be4 + 9.506 MeV [-5.750 MeV] (E_Os:24)
- 187Os76 + D* --> 182W74 + 7Li3 + 5.257 MeV [-9.999 MeV] (E_Os:25)
- 187Os76 + D* --> 183W74 + 6Li3 + 4.198 MeV [-11.058 MeV] (E_Os:26)
- 187Os76 + D* --> 185Re75 + 4He2 + 13.315 MeV [-1.941 MeV] (E_Os:27)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

187Os76 + D* --> 188Os76 + 1H1 + 5.765 MeV [-9.491 MeV] (E_Os:28)

188Os76 + D* --> 176Yb70 + 14N7 + 22.630 MeV [7.401 MeV] (E_Os:29)

188Os76 + D* --> 179Hf72 + 11B5 + 13.803 MeV [-1.426 MeV] (E_Os:30)

188Os76 + D* --> 180Hf72 + 10B5 + 9.737 MeV [-5.492 MeV] (E_Os:31)

188Os76 + D* --> 181Ta73 + 9Be4 + 9.093 MeV [-6.136 MeV] (E_Os:32)

188Os76 + D* --> 183W74 + 7Li3 + 3.458 MeV [-11.771 MeV] (E_Os:33)

188Os76 + D* --> 184W74 + 6Li3 + 3.620 MeV [-11.610 MeV] (E_Os:34)

188Os76 + D* --> 189Os76 + 1H1 + 3.696 MeV [-11.534 MeV] (E_Os:35)

189Os76 + D* --> 176Yb70 + 15N7 + 27.543 MeV [12.340 MeV] (E_Os:36)

189Os76 + D* --> 180Hf72 + 11B5 + 15.271 MeV [00.068 MeV] (E_Os:37)

189Os76 + D* --> 184W74 + 7Li3 + 4.950 MeV [-10.253 MeV] (E_Os:38)

189Os76 + D* --> 187Re75 + 4He2 + 12.941 MeV [-2.262 MeV] (E_Os:39)

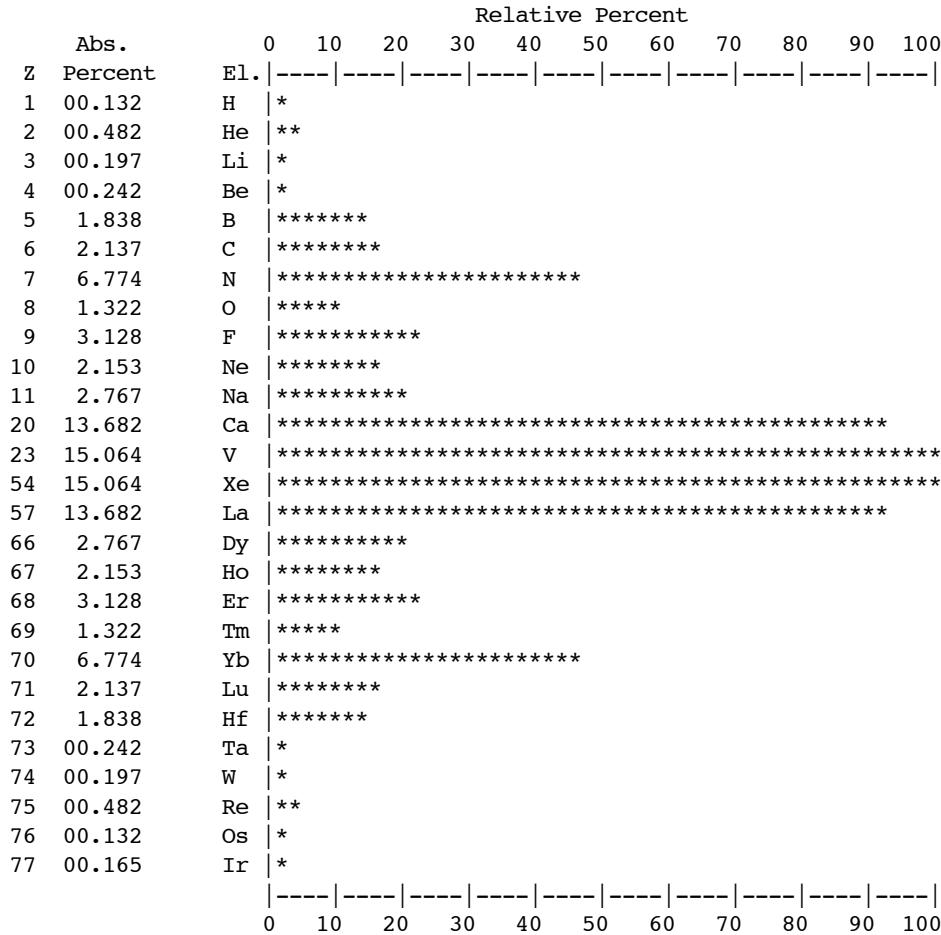
189Os76 + D* --> 190Os76 + 1H1 + 5.568 MeV [-9.635 MeV] (E_Os:40)

189Os76 + D* --> 191Ir77 + 10.857 MeV [-4.346 MeV] (E_Os:41)

190Os76 + D* --> 186W74 + 6Li3 + 2.852 MeV [-12.324 MeV] (E_Os:42)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Os + n D reactions



----- Equations follow for Iridium, Ir, element 77 -----

- 191Ir77 + D* --> 176Yb70 + 17O8 + 30.732 MeV [15.383 MeV] (E_Ir:1)
- 191Ir77 + D* --> 180Hf72 + 13C6 + 23.093 MeV [7.743 MeV] (E_Ir:2)
- 191Ir77 + D* --> 184W74 + 9Be4 + 10.789 MeV [-4.560 MeV] (E_Ir:3)
- 191Ir77 + D* --> 187Re75 + 6Li3 + 3.558 MeV [-11.791 MeV] (E_Ir:4)
- 191Ir77 + D* --> 189Os76 + 4He2 + 12.990 MeV [-2.360 MeV] (E_Ir:5)
- 191Ir77 + D* --> 190Os76 + 3He2 + 00.204 MeV [-15.145 MeV] (E_Ir:6)

- 193Ir77 + D* --> 186W74 + 9Be4 + 9.764 MeV [-5.533 MeV] (E_Ir:7)
- 193Ir77 + D* --> 195Pt78 + 11.399 MeV [-3.898 MeV] (E_Ir:8)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Ir + n D reactions

Z	Percent	El.	Relative Percent																	
			0	10	20	30	40	50	60	70	80	90	100							
2	4.357	He	*****																	
3	00.327	Li	*																	
4	5.483	Be	*****																	
6	13.766	C	*****																	
8	24.380	O	*****																	
70	24.380	Yb	*****																	
72	13.766	Hf	*****																	
74	5.483	W	*****																	
75	00.327	Re	*																	
76	4.357	Os	*****																	
78	3.377	Pt	*****																	

----- Equations follow for Platinum, Pt, element 78 -----

- 190Pt78 + D* --> 173Yb70 + 19F9 + 34.856 MeV [19.280 MeV] (E_Pt:1)
- 190Pt78 + D* --> 175Lu71 + 17O8 + 31.792 MeV [16.216 MeV] (E_Pt:2)
- 190Pt78 + D* --> 176Lu71 + 16O8 + 33.937 MeV [18.361 MeV] (E_Pt:3)
- 190Pt78 + D* --> 177Hf72 + 15N7 + 28.600 MeV [13.025 MeV] (E_Pt:4)
- 190Pt78 + D* --> 178Hf72 + 14N7 + 25.393 MeV [9.817 MeV] (E_Pt:5)
- 190Pt78 + D* --> 180Ta73 + 12C6 + 24.748 MeV [9.173 MeV] (E_Pt:6)
- 190Pt78 + D* --> 182W74 + 10B5 + 12.009 MeV [-3.567 MeV] (E_Pt:7)
- 190Pt78 + D* --> 186Os76 + 6Li3 + 4.725 MeV [-10.851 MeV] (E_Pt:8)

- 192Pt78 + D* --> 176Lu71 + 18O8 + 31.012 MeV [15.490 MeV] (E_Pt:9)
- 192Pt78 + D* --> 179Hf72 + 15N7 + 27.213 MeV [11.691 MeV] (E_Pt:10)
- 192Pt78 + D* --> 180Hf72 + 14N7 + 23.768 MeV [8.246 MeV] (E_Pt:11)
- 192Pt78 + D* --> 181Ta73 + 13C6 + 22.159 MeV [6.638 MeV] (E_Pt:12)
- 192Pt78 + D* --> 183W74 + 11B5 + 14.542 MeV [-0.980 MeV] (E_Pt:13)
- 192Pt78 + D* --> 184W74 + 10B5 + 10.499 MeV [-5.023 MeV] (E_Pt:14)
- 192Pt78 + D* --> 185Re75 + 9Be4 + 9.317 MeV [-6.205 MeV] (E_Pt:15)
- 192Pt78 + D* --> 187Os76 + 7Li3 + 3.153 MeV [-12.369 MeV] (E_Pt:16)
- 192Pt78 + D* --> 188Os76 + 6Li3 + 3.892 MeV [-11.629 MeV] (E_Pt:17)

- 194Pt78 + D* --> 186W74 + 10B5 + 8.831 MeV [-6.638 MeV] (E_Pt:18)
- 194Pt78 + D* --> 187Re75 + 9Be4 + 8.241 MeV [-7.228 MeV] (E_Pt:19)
- 194Pt78 + D* --> 189Os76 + 7Li3 + 2.450 MeV [-13.019 MeV] (E_Pt:20)
- 194Pt78 + D* --> 190Os76 + 6Li3 + 2.992 MeV [-12.477 MeV] (E_Pt:21)
- 194Pt78 + D* --> 195Pt78 + 1H1 + 3.880 MeV [-11.589 MeV] (E_Pt:22)

- 195Pt78 + D* --> 186W74 + 11B5 + 14.180 MeV [-1.262 MeV] (E_Pt:23)
- 195Pt78 + D* --> 190Os76 + 7Li3 + 4.137 MeV [-11.306 MeV] (E_Pt:24)
- 195Pt78 + D* --> 193Ir77 + 4He2 + 12.448 MeV [-2.995 MeV] (E_Pt:25)
- 195Pt78 + D* --> 196Pt78 + 1H1 + 5.697 MeV [-9.745 MeV] (E_Pt:26)
- 195Pt78 + D* --> 197Au79 + 11.480 MeV [-3.963 MeV] (E_Pt:27)

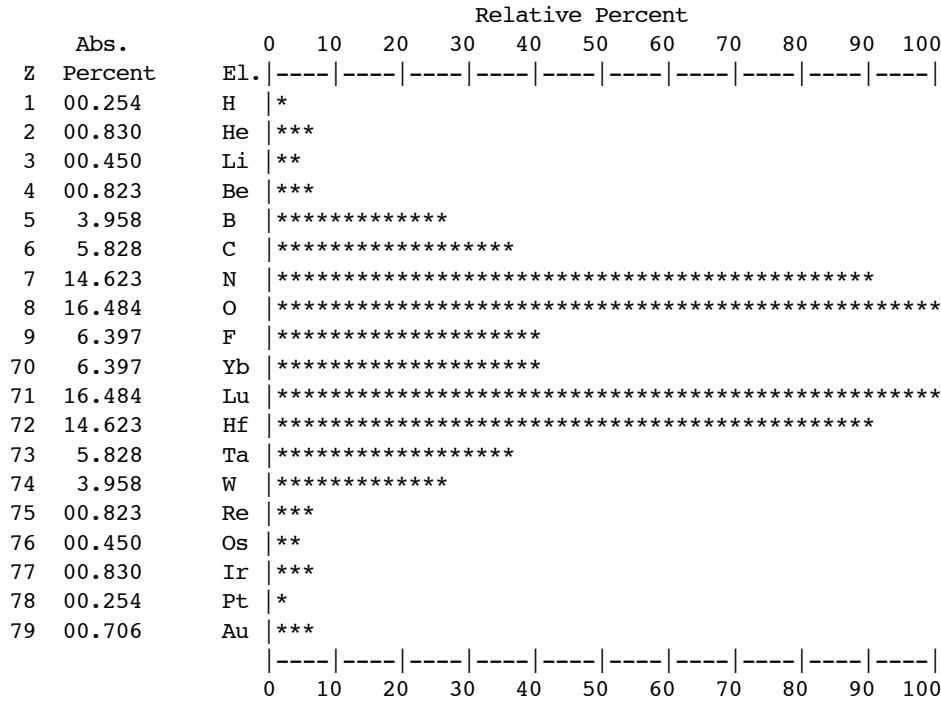
Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

$^{196}\text{Pt}_{78} + \text{D}^* \rightarrow ^{192}\text{Os}_{76} + ^6\text{Li}_3 + 2.282 \text{ MeV} [-13.135 \text{ MeV}]$

(E_Pt:28)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Pt + n D reactions



----- Equations follow for Gold, Au, element 79 -----

- 197Au79 + D* --> 186W74 + 13C6 + 21.379 MeV [5.791 MeV] (E_Au:1)
- 197Au79 + D* --> 190Os76 + 9Be4 + 9.353 MeV [-6.235 MeV] (E_Au:2)
- 197Au79 + D* --> 193Ir77 + 6Li3 + 2.442 MeV [-13.147 MeV] (E_Au:3)
- 197Au79 + D* --> 195Pt78 + 4He2 + 12.367 MeV [-3.222 MeV] (E_Au:4)
- 197Au79 + D* --> 199Hg80 + 11.542 MeV [-4.046 MeV] (E_Au:5)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Au + n D reactions

Z	Percent	El.	Relative Percent									
			0	10	20	30	40	50	60	70	80	90
2	9.930	He	*****									
3	00.387	Li	*									
4	5.680	Be	*****									
6	29.678	C	*****									
74	29.678	W	*****									
76	5.680	Os	*****									
77	00.387	Ir	*									
78	9.930	Pt	*****									
80	8.649	Hg	*****									

----- Equations follow for Mercury, Hg, element 80 -----

- 196Hg80 + D* --> 176Lu71 + 22Ne10 + 42.721 MeV [26.909 MeV] (E_Hg:1)
- 196Hg80 + D* --> 179Hf72 + 19F9 + 33.268 MeV [17.456 MeV] (E_Hg:2)
- 196Hg80 + D* --> 180Ta73 + 18O8 + 31.027 MeV [15.215 MeV] (E_Hg:3)
- 196Hg80 + D* --> 181Ta73 + 17O8 + 30.559 MeV [14.747 MeV] (E_Hg:4)
- 196Hg80 + D* --> 183W74 + 15N7 + 27.575 MeV [11.763 MeV] (E_Hg:5)
- 196Hg80 + D* --> 184W74 + 14N7 + 24.153 MeV [8.341 MeV] (E_Hg:6)
- 196Hg80 + D* --> 185Re75 + 13C6 + 22.006 MeV [6.194 MeV] (E_Hg:7)
- 196Hg80 + D* --> 187Os76 + 11B5 + 13.859 MeV [-1.953 MeV] (E_Hg:8)
- 196Hg80 + D* --> 188Os76 + 10B5 + 10.395 MeV [-5.417 MeV] (E_Hg:9)
- 196Hg80 + D* --> 192Pt78 + 6Li3 + 3.515 MeV [-12.297 MeV] (E_Hg:10)

- 198Hg80 + D* --> 186W74 + 14N7 + 21.827 MeV [6.068 MeV] (E_Hg:11)
- 198Hg80 + D* --> 187Re75 + 13C6 + 20.272 MeV [4.513 MeV] (E_Hg:12)
- 198Hg80 + D* --> 189Os76 + 11B5 + 12.499 MeV [-3.260 MeV] (E_Hg:13)
- 198Hg80 + D* --> 190Os76 + 10B5 + 8.837 MeV [-6.922 MeV] (E_Hg:14)
- 198Hg80 + D* --> 191Ir77 + 9Be4 + 7.540 MeV [-8.219 MeV] (E_Hg:15)
- 198Hg80 + D* --> 194Pt78 + 6Li3 + 2.858 MeV [-12.902 MeV] (E_Hg:16)
- 198Hg80 + D* --> 199Hg80 + 1H1 + 4.439 MeV [-11.320 MeV] (E_Hg:17)

- 199Hg80 + D* --> 186W74 + 15N7 + 25.997 MeV [10.264 MeV] (E_Hg:18)
- 199Hg80 + D* --> 190Os76 + 11B5 + 13.627 MeV [-2.106 MeV] (E_Hg:19)
- 199Hg80 + D* --> 194Pt78 + 7Li3 + 3.444 MeV [-12.289 MeV] (E_Hg:20)
- 199Hg80 + D* --> 195Pt78 + 6Li3 + 2.299 MeV [-13.434 MeV] (E_Hg:21)
- 199Hg80 + D* --> 197Au79 + 4He2 + 12.305 MeV [-3.428 MeV] (E_Hg:22)
- 199Hg80 + D* --> 200Hg80 + 1H1 + 5.804 MeV [-9.929 MeV] (E_Hg:23)

- 200Hg80 + D* --> 192Os76 + 10B5 + 7.461 MeV [-8.246 MeV] (E_Hg:24)
- 200Hg80 + D* --> 193Ir77 + 9Be4 + 6.818 MeV [-8.889 MeV] (E_Hg:25)
- 200Hg80 + D* --> 195Pt78 + 7Li3 + 1.520 MeV [-14.187 MeV] (E_Hg:26)
- 200Hg80 + D* --> 196Pt78 + 6Li3 + 2.192 MeV [-13.515 MeV] (E_Hg:27)
- 200Hg80 + D* --> 201Hg80 + 1H1 + 4.006 MeV [-11.701 MeV] (E_Hg:28)

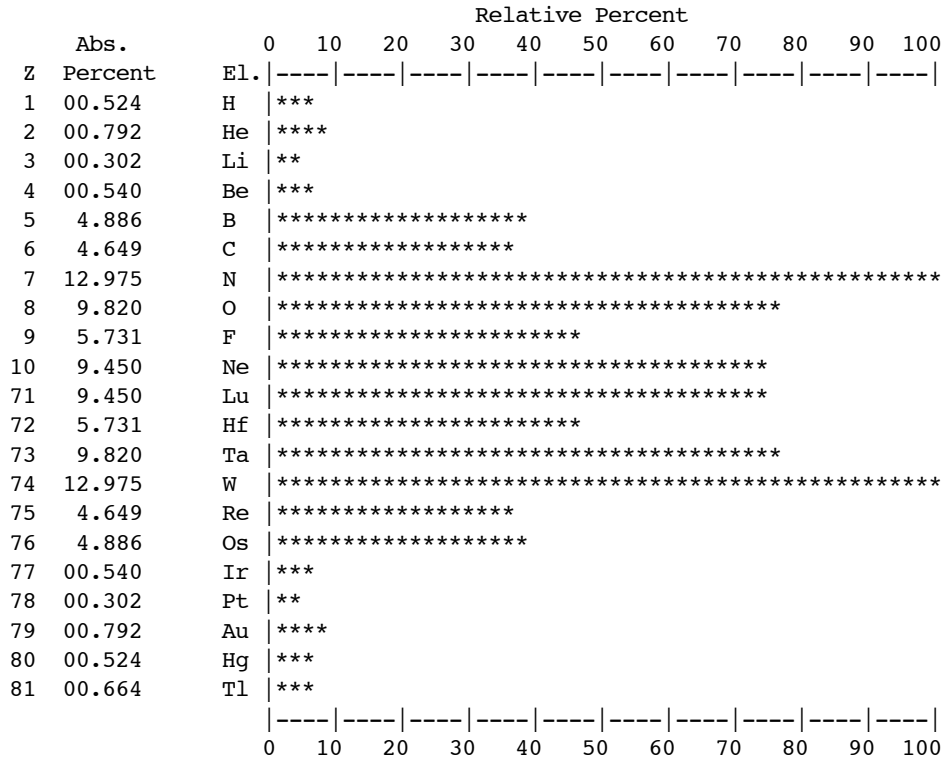
- 201Hg80 + D* --> 192Os76 + 11B5 + 12.685 MeV [-2.996 MeV] (E_Hg:29)

Report E - Energetically Feasible Aneutronic $X + n D^* \rightarrow Y + Z$ Reactions, $n = 1$ to 1
Creating Stable Isotopes Y and Z With No Weak Reactions

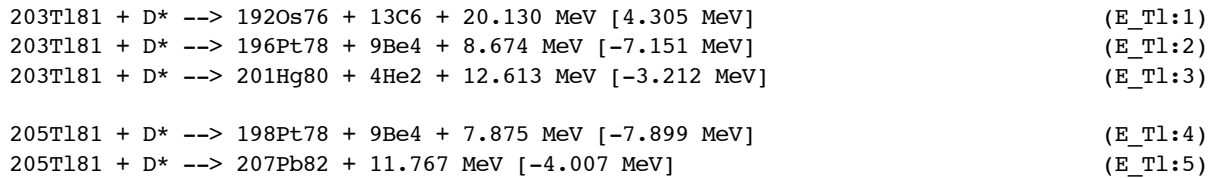
201Hg80 + D* --> 196Pt78 + 7Li3 + 3.212 MeV [-12.469 MeV] (E_Hg:30)
201Hg80 + D* --> 202Hg80 + 1H1 + 5.529 MeV [-10.152 MeV] (E_Hg:31)
201Hg80 + D* --> 203Tl81 + 11.234 MeV [-4.447 MeV] (E_Hg:32)
202Hg80 + D* --> 198Pt78 + 6Li3 + 1.611 MeV [-14.045 MeV] (E_Hg:33)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Hg + n D reactions

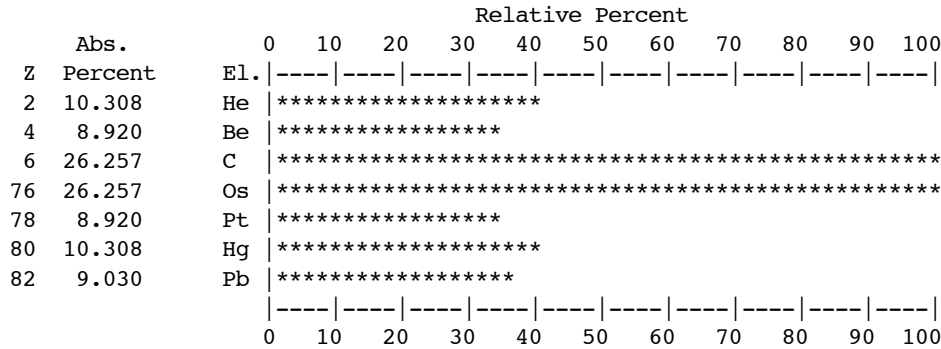


----- Equations follow for Thallium, Tl, element 81 -----



Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Tl + n D reactions



----- Equations follow for Lead, Pb, element 82 -----

- 204Pb82 + D* --> 192Os76 + 14N7 + 21.043 MeV [5.048 MeV] (E_Pb:1)
- 204Pb82 + D* --> 193Ir77 + 13C6 + 19.435 MeV [3.440 MeV] (E_Pb:2)
- 204Pb82 + D* --> 195Pt78 + 11B5 + 12.155 MeV [-3.840 MeV] (E_Pb:3)
- 204Pb82 + D* --> 196Pt78 + 10B5 + 8.623 MeV [-7.372 MeV] (E_Pb:4)
- 204Pb82 + D* --> 197Au79 + 9Be4 + 7.819 MeV [-8.175 MeV] (E_Pb:5)
- 204Pb82 + D* --> 199Hg80 + 7Li3 + 2.665 MeV [-13.330 MeV] (E_Pb:6)
- 204Pb82 + D* --> 200Hg80 + 6Li3 + 3.443 MeV [-12.551 MeV] (E_Pb:7)

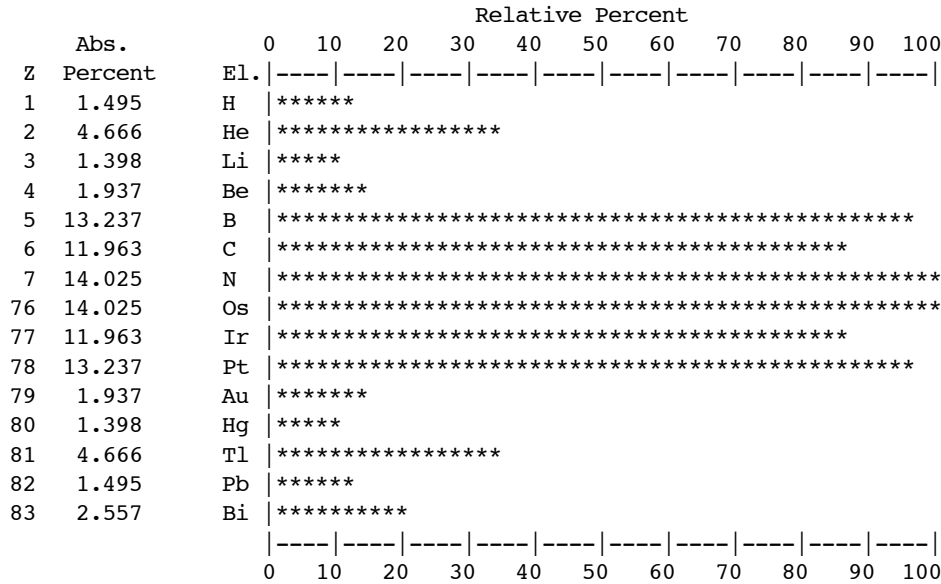
- 206Pb82 + D* --> 198Pt78 + 10B5 + 7.207 MeV [-8.736 MeV] (E_Pb:8)
- 206Pb82 + D* --> 201Hg80 + 7Li3 + 2.105 MeV [-13.838 MeV] (E_Pb:9)
- 206Pb82 + D* --> 202Hg80 + 6Li3 + 2.609 MeV [-13.334 MeV] (E_Pb:10)
- 206Pb82 + D* --> 207Pb82 + 1H1 + 4.513 MeV [-11.430 MeV] (E_Pb:11)

- 207Pb82 + D* --> 198Pt78 + 11B5 + 11.924 MeV [-3.994 MeV] (E_Pb:12)
- 207Pb82 + D* --> 202Hg80 + 7Li3 + 3.122 MeV [-12.796 MeV] (E_Pb:13)
- 207Pb82 + D* --> 205Tl81 + 4He2 + 12.079 MeV [-3.838 MeV] (E_Pb:14)
- 207Pb82 + D* --> 208Pb82 + 1H1 + 5.143 MeV [-10.775 MeV] (E_Pb:15)
- 207Pb82 + D* --> 209Bi83 + 8.942 MeV [-6.976 MeV] (E_Pb:16)

- 208Pb82 + D* --> 204Hg80 + 6Li3 + 1.991 MeV [-13.902 MeV] (E_Pb:17)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for Pb + n D reactions

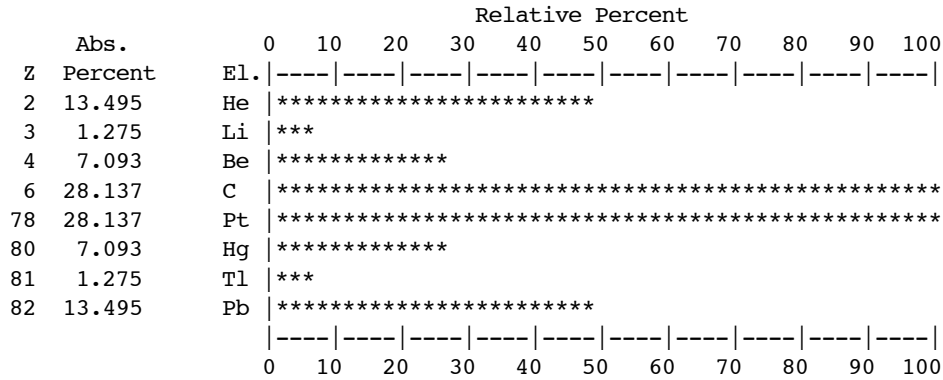


----- Equations follow for Bismuth, Bi, element 83 -----

- 209Bi83 + D* --> 198Pt78 + 13C6 + 21.660 MeV [5.599 MeV] (E_Bi:1)
- 209Bi83 + D* --> 202Hg80 + 9Be4 + 10.875 MeV [-5.185 MeV] (E_Bi:2)
- 209Bi83 + D* --> 205Tl81 + 6Li3 + 4.611 MeV [-11.450 MeV] (E_Bi:3)
- 209Bi83 + D* --> 207Pb82 + 4He2 + 14.904 MeV [-1.157 MeV] (E_Bi:4)
- 209Bi83 + D* --> 208Pb82 + 3He2 + 1.695 MeV [-14.366 MeV] (E_Bi:5)

Report E - Energetically Feasible Aneutronic X + n D* --> Y + Z Reactions, n = 1 to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

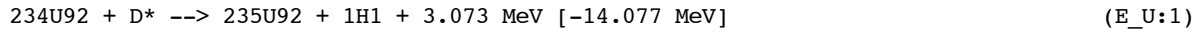
Fusion Product Chart for Bi + n D reactions



----- Equations follow for Thorium, Th, element 90 -----

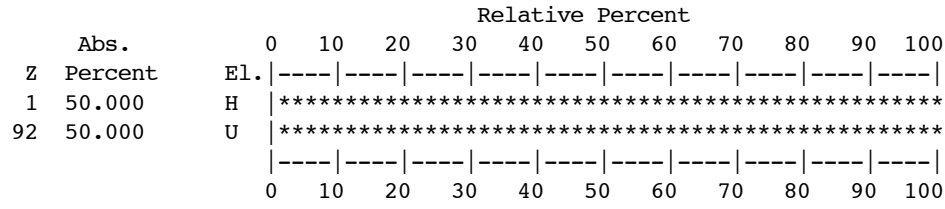
----- Equations follow for Protactinium, Pa, element 91 -----

----- Equations follow for Uranium, U, element 92 -----



Report E - Energetically Feasible Aneutronic $X + n D^* \rightarrow Y + Z$ Reactions, $n = 1$ to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Fusion Product Chart for U + n D reactions



Report E - Energetically Feasible Aneutronic $X + n D^* \rightarrow Y + Z$ Reactions, $n = 1$ to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

Electron constrained isotopes involving up to 1 D fusions

Isotope	Isotope Abundance	Effective Element Abundance	Element
16O8	99.7570	99.7570	Oxygen
39K19	93.2581	93.2581	Potassium
42Ca20	00.6470	00.6470	Calcium
46Ti22	8.2500	8.2500	Titanium
52Cr24	83.7890	83.7890	Chromium
56Fe26	91.7540	91.7540	Iron
60Ni28	26.2231	26.2231	Nickel
64Zn30	48.6300		
66Zn30	27.9000	76.5300	Zinc
70Ge32	20.8400		
72Ge32	27.5400	48.3800	Germanium
74Se34	00.8900		
76Se34	9.3700	10.2600	Selenium
79Br35	50.6900	50.6900	Bromine
80Kr36	2.2800		
82Kr36	11.5800	13.8600	Krypton
86Sr38	9.8600	9.8600	Strontium
90Zr40	51.4500		
94Zr40	17.3800	68.8300	Zirconium
98Mo42	24.1300	24.1300	Molybdenum
100Ru44	12.6000		
102Ru44	31.5500	44.1500	Ruthenium
108Pd46	26.4600	26.4600	Palladium
112Cd48	24.1300	24.1300	Cadmium
116Sn50	14.5400		
118Sn50	24.2200	38.7600	Tin
122Te52	2.5500		
124Te52	4.7400	7.2900	Tellurium
128Xe54	1.9200		
130Xe54	4.0800		
132Xe54	26.8900	32.8900	Xenon
134Ba56	2.4170		
136Ba56	7.8540		
138Ba56	71.6980	81.9690	Barium
140Ce58	88.4500	88.4500	Cerium
152Sm62	26.7500		
154Sm62	22.7500	49.5000	Samarium
156Gd64	20.4700		
158Gd64	24.8400	45.3100	Gadolinium
164Dy66	28.1800	28.1800	Dysprosium
168Er68	26.7800	26.7800	Erbium
174Yb70	31.8300	31.8300	Ytterbium
178Hf72	27.2800		
179Hf72	13.6200		
180Hf72	35.0800	75.9800	Hafnium
184W74	30.6400	30.6400	Tungsten
190Os76	26.2600	26.2600	Osmium
193Ir77	62.7000	62.7000	Iridium

Report E - Energetically Feasible Aneutronic $X + n D^* \rightarrow Y + Z$ Reactions, $n = 1$ to 1
 Creating Stable Isotopes Y and Z With No Weak Reactions

194Pt78	32.9670		
195Pt78	33.8320		
196Pt78	25.2420	92.0410	Platinum
200Hg80	23.1000		
201Hg80	13.1800		
202Hg80	29.8600	66.1400	Mercury
205Tl81	70.4760	70.4760	Thallium
206Pb82	24.1000		
207Pb82	22.1000		
208Pb82	52.4000	98.6000	Lead
234U92	00.0055	00.0055	Uranium

Total number of reaction equations: 1203

Maximum number of D fused with X: 1

Maximum number of D tallied for Fusion Product Charts: 1

Maximum number of D tallied for Constrained Isotope Report: 1

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