

Table II. Influences on primary nuclei**EXPLANATION OF TABLE**

This table gives for each of the 1176 primary nuclei the up to three most important contributing data and their *influences* ($\times 100$) on its mass, as given by the flow-of-information matrix.

Nucleus	Nuclidic name (primaries only)			
Influence	<i>Influence</i> ($\times 100$) brought to the determination of the mass of the nucleus, by the piece of data represented by the equation in following column			
Equation	K^m , Cs^m , Cs^n , In^p , Tl^q : higher isomers, see NUBASE.	In nuclear reactions: ϵ = electron capture,	In mass-doublet equation: $H = {}^1H$, $N = {}^{14}N$, $D = {}^2H$, $O = {}^{16}O$, $C = {}^{12}C$, u = absolute mass-doublet.	In mass-triplet equation: Rb^x , Rb^y : different mixtures of isomers or contaminants.

Table II. Influences on primary nuclei (Explanation of Table on page 1673)

Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
$0\pi^+$	100.0	π^+				
$0\pi^-$	100.0	$\pi^+(2\beta^+)\pi^-$				
1 n	100.0	${}^1\text{H}(n,\gamma){}^2\text{H}$				
${}^1\text{H}$	43.4	$\text{H}_{12}-\text{C}$	24.2	H_2-D	18.0	$\text{C}_2\text{H}_4-{}^{28}\text{Si}$
${}^2\text{H}$	78.5	D_6-C	7.9	H_2-D	3.2	$\text{C D}_3-{}^{18}\text{O}$
${}^3\text{H}$	90.1	${}^3\text{H}_4-\text{C}$	5.1	${}^3\text{H}(\beta^-){}^3\text{He}$	4.7	${}^3\text{H}-{}^3\text{He}$
${}^3\text{He}$	46.3	${}^3\text{H}(\beta^-){}^3\text{He}$	42.5	${}^3\text{H}-{}^3\text{He}$	11.1	${}^3\text{He}_4-\text{C}$
${}^4\text{He}$	100.0	${}^4\text{He}_3-\text{C}$				
${}^6\text{He}$	100.0	${}^6\text{He}-{}^7\text{Li}_{.857}$				
${}^6\text{Li}$	100.0	${}^6\text{Li}_2-\text{C}$				
${}^7\text{Li}$	99.8	${}^7\text{Li}-\text{H}_7$	0.1	${}^7\text{Li}(n,\gamma){}^8\text{Li}$	0.1	${}^8\text{He}-{}^7\text{Li}_{.143}$
${}^7\text{Li}^i$	61.0	${}^9\text{Be}(p,{}^3\text{He}){}^7\text{Li}^i$	39.0	${}^6\text{Li}(n,\gamma){}^7\text{Li}^i$		
${}^7\text{Be}$	100.0	${}^7\text{Li}(p,n){}^7\text{Be}$				
${}^8\text{He}$	74.9	${}^8\text{He}-{}^7\text{Li}_{.143}$	25.1	${}^8\text{He}-{}^6\text{Li}_{.333}$		
${}^8\text{Li}$	78.7	${}^7\text{Li}(n,\gamma){}^8\text{Li}$	21.3	${}^8\text{Li}-{}^6\text{Li}_{.333}$		
${}^8\text{Be}^j$	57.1	${}^{10}\text{Be}(p,t){}^8\text{Be}^j$	42.9	${}^6\text{Li}(d,\gamma){}^8\text{Be}^j$		
${}^8\text{B}$	100.0	${}^6\text{Li}({}^3\text{He},n){}^8\text{B}$				
${}^8\text{C}$	62.5	${}^{12}\text{C}(\alpha,{}^8\text{He}){}^8\text{C}$	37.5	${}^8\text{C}-\text{u}$		
${}^9\text{He}$	56.2	${}^9\text{He}(\gamma,n){}^8\text{He}$	43.8	${}^9\text{Be}(\pi^-,\pi^+){}^9\text{He}$		
${}^9\text{Be}$	67.1	${}^9\text{Be}-{}^7\text{Li}_{.286}$	32.9	${}^9\text{Be}(n,\gamma){}^{10}\text{Be}$		
${}^{10}\text{Be}$	55.6	${}^9\text{Be}(n,\gamma){}^{10}\text{Be}$	44.4	${}^{10}\text{Be}-{}^7\text{Li}_{.429}$		
${}^{10}\text{B}$	99.2	${}^{10}\text{B}(\alpha,d){}^{12}\text{C}$	0.8	${}^{10}\text{B}(n,\gamma){}^{11}\text{B}$		
${}^{10}\text{C}$	67.2	${}^{10}\text{C}-{}^{10}\text{B}$	32.8	${}^{10}\text{B}(p,n){}^{10}\text{C}$		
${}^{11}\text{Be}$	83.1	${}^{11}\text{Be}-{}^6\text{Li}_{.833}$	16.9	${}^{11}\text{Be}-{}^7\text{Li}_{.571}$		
${}^{11}\text{B}$	99.0	${}^{10}\text{B}(n,\gamma){}^{11}\text{B}$	1.0	${}^{11}\text{B}(d,p){}^{12}\text{B}$		
${}^{11}\text{B}^i$	79.1	${}^9\text{Be}({}^3\text{He},p){}^{11}\text{B}^i$	20.9	${}^7\text{Li}(\alpha,\gamma){}^{11}\text{B}^i$		
${}^{11}\text{C}$	100.0	${}^{11}\text{C}(\beta^+){}^{11}\text{B}$				
${}^{11}\text{C}^i$	50.0	${}^9\text{Be}({}^3\text{He},n){}^{11}\text{C}^i$	50.0	${}^{11}\text{B}({}^3\text{He},t){}^{11}\text{C}^i$		
${}^{12}\text{Be}$	79.4	${}^{12}\text{Be}-\text{C}$	20.6	${}^{10}\text{Be}(t,p){}^{12}\text{Be}$		
${}^{12}\text{B}$	89.2	${}^{14}\text{C}(d,\alpha){}^{12}\text{B}$	10.8	${}^{11}\text{B}(d,p){}^{12}\text{B}$		
${}^{12}\text{B}^i$	86.3	${}^{14}\text{C}(p,{}^3\text{He}){}^{12}\text{B}^i$	13.7	${}^9\text{Be}({}^7\text{Li},\alpha){}^{12}\text{B}^i$		
${}^{12}\text{C}^i$	69.2	${}^{11}\text{B}(d,n){}^{12}\text{C}^i$	30.8	${}^{10}\text{B}({}^3\text{He},p){}^{12}\text{C}^i$		
${}^{12}\text{N}$	100.0	${}^{14}\text{N}(p,t){}^{12}\text{N}$				
${}^{13}\text{C}$	75.3	${}^{13}\text{C H}-{}^{14}\text{N}$	24.0	${}^{13}\text{C}_2\text{H}_2-{}^{28}\text{Si}$	0.7	${}^{13}\text{C D}_3-{}^{19}\text{F}$
${}^{13}\text{N}$	100.0	${}^{12}\text{C}(p,\gamma){}^{13}\text{N}$				
${}^{14}\text{B}$	100.0	${}^{14}\text{C}({}^7\text{Li},{}^7\text{Be}){}^{14}\text{B}$				
${}^{14}\text{C}$	80.0	${}^{14}\text{C H}_2-\text{N D}$	20.0	$\text{C D}_2-{}^{14}\text{C H}_2$		
${}^{14}\text{N}$	77.9	$\text{N}_2-\text{C O}$	19.0	${}^{13}\text{C H}-{}^{14}\text{N}$	1.2	${}^{86}\text{Kr}-\text{N}_6$
${}^{14}\text{O}$	57.4	${}^{26}\text{Mg}({}^3\text{He},t){}^{26}\text{Al}-{}^{14}\text{N}({}^{14}\text{O})$	42.6	${}^{14}\text{N}(p,n){}^{14}\text{O}$		
${}^{15}\text{B}$	88.4	${}^{18}\text{O}({}^{48}\text{Ca},{}^{51}\text{V}){}^{15}\text{B}$	11.6	${}^{16}\text{B}(\gamma,n){}^{15}\text{B}$		
${}^{15}\text{N}$	60.6	$\text{C D H}-{}^{15}\text{N}$	26.5	${}^{15}\text{N}_2-{}^{28}\text{Si H}_2$	12.9	$\text{C H}_3-{}^{15}\text{N}$
${}^{15}\text{O}$	70.3	${}^{15}\text{N}(p,n){}^{15}\text{O}$	29.7	${}^{14}\text{N}(p,\gamma){}^{15}\text{O}$		
${}^{15}\text{F}$	78.3	${}^{15}\text{F}(p){}^{14}\text{O}$	21.7	${}^{20}\text{Ne}({}^3\text{He},{}^8\text{Li}){}^{15}\text{F}$		
${}^{16}\text{B}$	83.2	${}^{16}\text{B}(\gamma,n){}^{15}\text{B}$	16.8	${}^{14}\text{C}({}^{14}\text{C},{}^{12}\text{N}){}^{16}\text{B}$		
${}^{16}\text{O}$	90.9	C_4-O_3	4.4	$\text{O}_2-{}^{31}\text{P H}$	1.8	$\text{N}_2-\text{C O}$
${}^{16}\text{O}^i$	54.4	${}^{14}\text{N}({}^3\text{He},p){}^{16}\text{O}^i$	45.6	${}^{15}\text{N}(p,\gamma){}^{16}\text{O}^i$		
${}^{16}\text{O}^j$	77.0	${}^{14}\text{N}(d,\gamma){}^{16}\text{O}^j$	23.0	${}^{14}\text{C}({}^3\text{He},n){}^{16}\text{O}^j$		
${}^{17}\text{O}$	82.2	${}^{17}\text{O}_2-{}^{28}\text{Si D}_3$	17.8	${}^{17}\text{O}-{}^{16}\text{O H}$		
${}^{17}\text{F}$	100.0	${}^{16}\text{O}(p,\gamma){}^{17}\text{F}$				
${}^{18}\text{O}$	84.1	$\text{C D}_3-{}^{18}\text{O}$	15.9	$\text{C}_3-{}^{18}\text{O}_2$		
${}^{18}\text{F}$	59.6	${}^{17}\text{O}(p,\gamma){}^{18}\text{F}$	40.4	${}^{18}\text{O}(p,n){}^{18}\text{F}$		
${}^{18}\text{Ne}$	100.0	${}^{18}\text{Ne}-{}^{22}\text{Ne}_{.818}$				
${}^{19}\text{F}$	84.1	${}^{13}\text{C D}_3-{}^{19}\text{F}$	15.9	${}^{28}\text{Si H}_3-\text{C }{}^{19}\text{F}$		
${}^{19}\text{Na}$	77.1	${}^{24}\text{Mg}({}^3\text{He},{}^8\text{Li}){}^{19}\text{Na}$	22.9	${}^{19}\text{Na}(p){}^{18}\text{Ne}$		
${}^{20}\text{Ne}$	60.5	${}^{20}\text{Ne}_2-{}^{40}\text{Ar}$	39.5	$\text{C D}_4-{}^{20}\text{Ne}$		

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
^{20}Na	100.0	$^{20}\text{Ne}(^3\text{He,t})^{20}\text{Na}-^{36}\text{Ar}()$				
^{21}Na	46.4	$^{21}\text{Na}-^{39}\text{K}_{.538}$	38.1	$^{21}\text{Na}-^{23}\text{Na}_{.913}$	15.5	$^{20}\text{Ne}(p,\gamma)^{21}\text{Na}$
^{22}Ne	99.6	$^{22}\text{Ne-u}$	0.2	$^{22}\text{Na}-^{22}\text{Ne}$	0.1	$^{46}\text{Ti}-^{22}\text{Ne}_{2.091}$
^{22}Na	30.8	$^{22}\text{Na}-^{22}\text{Ne}$	17.8	$^{22}\text{Na}-^{23}\text{Na}_{.957}$	16.6	$^{22}\text{Na}-^{39}\text{K}_{.564}$
^{22}Mg	40.9	$^{22}\text{Mg}-^{39}\text{K}_{.564}$	38.0	$^{22}\text{Mg}-^{22}\text{Na}$	21.1	$^{22}\text{Mg}-^{22}\text{Ne}$
$^{22}\text{Mg}^i$	87.7	$^{22}\text{Mg}^i(p)^{21}\text{Na}$	12.3	$^{22}\text{Mg}^i(\alpha)^{18}\text{Ne}$		
^{23}F	69.2	$^{23}\text{F-u}$	30.8	$^{22}\text{Ne}(^{18}\text{O},^{17}\text{F})^{23}\text{F}$		
^{23}Na	100.0	$^{23}\text{Na-u}$				
^{23}Mg	79.0	$^{23}\text{Mg}-^{23}\text{Na}$	21.0	$^{24}\text{Mg}(p,d)^{23}\text{Mg}$		
^{24}Mg	98.0	$^{24}\text{Mg}-\text{H}_{24}$	1.9	$^{24}\text{Mg}(n,\gamma)^{25}\text{Mg}$	0.1	$^{22}\text{Na}-^{24}\text{Mg}_{.917}$
^{24}Al	100.0	$^{24}\text{Mg}(^3\text{He,t})^{24}\text{Al}-^{36}\text{Ar}()$				
^{25}Mg	44.9	$^{25}\text{Mg}(n,\gamma)^{26}\text{Mg}$	42.4	$^{24}\text{Mg}(n,\gamma)^{25}\text{Mg}$	12.7	$^{25}\text{Mg}(p,\gamma)^{26}\text{Al}$
^{25}Al	99.1	$^{24}\text{Mg}(p,\gamma)^{25}\text{Al}$	0.9	$^{25}\text{Al}^i(\text{IT})^{25}\text{Al}$		
$^{25}\text{Al}^i$	83.9	$^{25}\text{Al}^i(\text{IT})^{25}\text{Al}$	16.1	$^{27}\text{Al}(p,t)^{25}\text{Al}^i$		
^{26}Mg	88.0	$^{26}\text{Mg}-\text{H}_{26}$	8.6	$^{25}\text{Mg}(n,\gamma)^{26}\text{Mg}$	0.9	$^{26}\text{Mg}(p,\gamma)^{27}\text{Al}$
^{26}Al	59.4	$^{25}\text{Mg}(p,\gamma)^{26}\text{Al}$	13.8	$^{26}\text{Al}-^{26}\text{Mg}$	13.7	$^{26}\text{Al}^m(\text{IT})^{26}\text{Al}$
$^{26}\text{Al}^m$	85.7	$^{26}\text{Al}^m(\text{IT})^{26}\text{Al}$	14.3	$^{26}\text{Al}^m-^{26}\text{Mg}$		
^{27}Al	67.2	$^{27}\text{Al}(p,\gamma)^{28}\text{Si}$	19.9	$^{27}\text{Al}-^{23}\text{Na}_{1.174}$	12.8	$^{26}\text{Mg}(p,\gamma)^{27}\text{Al}$
$^{27}\text{Si}^i$	78.7	$^{28}\text{Si}(^3\text{He},\alpha)^{27}\text{Si}^i$	21.3	$^{29}\text{Si}(p,t)^{27}\text{Si}^i$		
^{28}Si	30.2	$^{28}\text{Si-u}$	26.6	$\text{C}_2\text{H}_4-^{28}\text{Si}$	24.3	$^{13}\text{C}_2\text{H}_2-^{28}\text{Si}$
^{28}P	100.0	$^{28}\text{Si}(^3\text{He,t})^{28}\text{P}-^{36}\text{Ar}()$				
^{29}Na	62.8	$^{29}\text{Na}-^{39}\text{K}_{.744}$	37.2	$^{29}\text{Na-u}$		
^{29}Si	100.0	$^{29}\text{Si}-^{28}\text{Si H}$				
^{29}P	99.0	$^{28}\text{Si}(p,\gamma)^{29}\text{P}$	1.0	$^{29}\text{P}^i(\text{IT})^{29}\text{P}$		
$^{29}\text{P}^i$	75.4	$^{29}\text{P}^i(\text{IT})^{29}\text{P}$	24.6	$^{28}\text{Si}(p,\gamma)^{29}\text{P}^i$		
^{30}Na	82.1	$^{30}\text{Na}-\text{O}_{1.876}$	17.9	$^{30}\text{Na}-^{39}\text{K}_{.769}$		
^{31}P	57.6	$\text{O}_2-^{31}\text{P H}$	42.4	$^{31}\text{P}-^{28}\text{Si H}_3$		
^{31}S	96.9	$^{31}\text{S}-^{31}\text{P}$	3.1	$^{32}\text{Cl}(p)^{31}\text{S}$		
^{32}S	51.6	$^{32}\text{S}-\text{C}_2\text{D}_4$	48.3	$^{32}\text{S}-\text{O}_2$		
^{32}Cl	76.3	$^{32}\text{Cl}(p)^{31}\text{S}$	23.7	$^{32}\text{S}(^3\text{He,t})^{32}\text{Cl}-^{36}\text{Ar}()$		
^{33}S	100.0	$^{33}\text{S}-^{32}\text{S H}$				
^{33}Cl	79.9	$^{32}\text{S}(p,\gamma)^{33}\text{Cl}$	20.1	$^{33}\text{Cl}^i(\text{IT})^{33}\text{Cl}$		
$^{33}\text{Cl}^i$	63.1	$^{33}\text{Cl}^i(\text{IT})^{33}\text{Cl}$	36.9	$^{32}\text{S}(p,\gamma)^{33}\text{Cl}^i$		
^{34}S	46.5	$^{34}\text{S}(n,\gamma)^{35}\text{S}$	23.6	$^{33}\text{S}(n,\gamma)^{34}\text{S}$	18.0	$^{34}\text{Cl}-^{34}\text{S}$
^{34}Cl	48.4	$^{33}\text{S}(p,\gamma)^{34}\text{Cl}$	31.0	$^{34}\text{Cl}-^{34}\text{S}$	18.4	$^{34}\text{Cl}^m(\text{IT})^{34}\text{Cl}$
$^{34}\text{Cl}^m$	65.1	$^{34}\text{Cl}^m(\text{IT})^{34}\text{Cl}$	30.7	$^{34}\text{Cl}^m-^{34}\text{S}$	4.2	$^{34}\text{Cl}^m-^{34}\text{Ar}$
^{34}Ar	52.0	$^{34}\text{Ar}-^{34}\text{Cl}$	35.1	$^{34}\text{Cl}^m-^{34}\text{Ar}$	12.9	$^{34}\text{S}-^{34}\text{Ar}$
^{35}S	71.5	$^{35}\text{S}(\beta^-)^{35}\text{Cl}$	28.5	$^{34}\text{S}(n,\gamma)^{35}\text{S}$		
^{35}Cl	55.5	$\text{C}_3-^{35}\text{Cl H}$	19.4	$^{35}\text{S}(\beta^-)^{35}\text{Cl}$	15.2	$\text{C}_5\text{H}_{10}-^{35}\text{Cl}_2$
^{36}S	63.6	$^{36}\text{S}(p,\gamma)^{37}\text{Cl}$	36.4	$^{36}\text{S}(p,n)^{36}\text{Cl}$		
^{36}Cl	99.1	$^{35}\text{Cl}(n,\gamma)^{36}\text{Cl}$	0.9	$^{36}\text{S}(p,n)^{36}\text{Cl}$		
^{36}Ar	100.0	$^{36}\text{Ar-u}$				
^{36}K	92.8	$^{36}\text{K}-^{39}\text{K}_{.923}$	7.2	$^{32}\text{S}(^3\text{He,t})^{32}\text{Cl}-^{36}\text{Ar}()$		
^{37}Cl	85.0	$\text{C}_3\text{H}_6\text{O}_2-^{37}\text{Cl}_2$	9.2	$\text{C}_5\text{H}_{12}-^{35}\text{Cl}^{37}\text{Cl}$	1.8	$^{36}\text{S}(p,\gamma)^{37}\text{Cl}$
^{38}Ar	32.0	$^{38}\text{Ar}-^{39}\text{K}_{.974}$	27.4	$^{38}\text{K}^m-^{38}\text{Ar}$	23.5	$^{38}\text{K}-^{38}\text{Ar}$
^{38}K	26.5	$^{38}\text{K}-^{38}\text{Ar}$	26.1	$^{38}\text{K}^m-^{38}\text{K}$	24.6	$^{38}\text{Ca}-^{38}\text{K}$
$^{38}\text{K}^m$	44.5	$^{38}\text{K}^m-^{38}\text{Ar}$	34.0	$^{38}\text{K}^m-^{38}\text{K}$	21.5	$^{38}\text{K}^m-^{38}\text{Ca}$
^{38}Ca	48.4	$^{38}\text{Ca}-\text{H}_6\text{O}_2$	20.5	$^{38}\text{Ca}-^{38}\text{K}$	15.8	$^{38}\text{K}^m-^{38}\text{Ca}$
^{39}K	99.8	$^{39}\text{K}-^{40}\text{Ar}$	0.1	$^{39}\text{K}(n,\gamma)^{40}\text{K}$		
^{39}Ca	100.0	$^{39}\text{Ca}^{19}\text{F}-^{39}\text{K}_{1.487}$				
^{40}S	79.3	$^{40}\text{S}-^{40}\text{Ar}$	20.7	$^{40}\text{S}-^{41}\text{K}_{.976}$		
^{40}Ar	46.2	$\text{C}_3\text{H}_4-^{40}\text{Ar}$	32.9	$\text{C}_2\text{D}_8-^{40}\text{Ar}$	13.5	$^{20}\text{Ne}_2-^{40}\text{Ar}$
^{40}K	60.9	$^{39}\text{K}(n,\gamma)^{40}\text{K}$	39.1	$^{40}\text{K}(n,\gamma)^{41}\text{K}$		
^{40}Ca	99.1	$^{40}\text{Ca}-\text{H}_{40}$	0.9	$^{48}\text{Ca}-^{40}\text{Ca}_{1.200}$		
^{41}K	99.9	$^{41}\text{K}-^{40}\text{Ar H}$	0.1	$^{40}\text{K}(n,\gamma)^{41}\text{K}$		

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Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
^{41}Ca	99.6	$^{40}\text{Ca}(n,\gamma)^{41}\text{Ca}$	0.4	$^{41}\text{Ca}(n,\gamma)^{42}\text{Ca}$		
^{41}Sc	79.2	$^{40}\text{Ca}(p,\gamma)^{41}\text{Sc}$	20.8	$^{41}\text{Sc}^r(\text{IT})^{41}\text{Sc}$		
$^{41}\text{Sc}^r$	72.4	$^{41}\text{Sc}^r(\text{IT})^{41}\text{Sc}$	27.6	$^{41}\text{Ca}(p,\gamma)^{42}\text{Sc}^r - ^{40}\text{Ca}()^{41}\text{Sc}^r$		
^{42}Ca	90.3	$^{41}\text{Ca}(n,\gamma)^{42}\text{Ca}$	3.4	$^{42}\text{Sc} - ^{42}\text{Ca}$	2.9	$^{42}\text{Sc}^m - ^{42}\text{Ca}$
^{42}Sc	49.6	$^{42}\text{Sc}^r(\text{IT})^{42}\text{Sc}$	18.9	$^{42}\text{Sc} - ^{42}\text{Ca}$	16.4	$^{42}\text{Sc}^m(\text{IT})^{42}\text{Sc}$
$^{42}\text{Sc}^m$	76.3	$^{42}\text{Sc}^m(\text{IT})^{42}\text{Sc}$	21.8	$^{42}\text{Sc}^m - ^{42}\text{Ca}$	2.0	$^{42}\text{Ti} - ^{42}\text{Sc}^m$
$^{42}\text{Sc}^r$	66.0	$^{41}\text{Ca}(p,\gamma)^{42}\text{Sc}^r - ^{40}\text{Ca}()^{41}\text{Sc}^r$	34.0	$^{42}\text{Sc}^r(\text{IT})^{42}\text{Sc}$		
^{42}Ti	48.8	$^{42}\text{Ti} - ^{42}\text{Sc}$	38.5	$^{42}\text{Ti} - ^{42}\text{Sc}^m$	12.7	$^{42}\text{Ti} - ^{42}\text{Ca}$
^{43}Ca	98.8	$^{42}\text{Ca}(n,\gamma)^{43}\text{Ca}$	1.1	$^{43}\text{Ca}(n,\gamma)^{44}\text{Ca}$		
$^{43}\text{Ca}^i$	76.8	$^{44}\text{Ca}(p,d)^{43}\text{Ca}^i$	23.2	$^{41}\text{K}(^3\text{He},p)^{43}\text{Ca}^i$		
$^{43}\text{Sc}^i$	83.3	$^{43}\text{Ca}(^3\text{He},t)^{43}\text{Sc}^i$	16.7	$^{42}\text{Ca}(^3\text{He},d)^{43}\text{Sc}^i$		
$^{43}\text{V}^i$	88.8	$^{43}\text{V}^i(2p)^{41}\text{Sc}$	11.2	$^{43}\text{V}^i(p)^{42}\text{Ti}$		
^{44}Ca	97.5	$^{43}\text{Ca}(n,\gamma)^{44}\text{Ca}$	2.3	$^{44}\text{Ca}(n,\gamma)^{45}\text{Ca}$	0.2	$^{44}\text{Ca}(^3\text{He},t)^{44}\text{Sc}^i$
$^{44}\text{Sc}^i$	75.6	$^{44}\text{Ca}(^3\text{He},t)^{44}\text{Sc}^i$	24.4	$^{43}\text{Ca}(^3\text{He},d)^{44}\text{Sc}^i$		
^{45}Ca	97.1	$^{44}\text{Ca}(n,\gamma)^{45}\text{Ca}$	2.9	$^{45}\text{Ca}(\beta^-)^{45}\text{Sc}$		
^{45}Sc	86.4	$^{45}\text{Sc}(p,\gamma)^{46}\text{Ti}$	12.5	$^{45}\text{Ca}(\beta^-)^{45}\text{Sc}$	1.0	$^{45}\text{Sc}(^3\text{He},t)^{45}\text{Ti}$
$^{45}\text{Ti}^i$	60.4	$^{45}\text{Sc}(^3\text{He},t)^{45}\text{Ti}^i$	39.6	$^{46}\text{Ti}(p,d)^{45}\text{Ti}^i$		
^{45}V	78.0	$^{45}\text{V} - u$	22.0	$^{50}\text{Cr}(p,^6\text{He})^{45}\text{V}$		
^{46}Ca	90.4	$^{46}\text{Ca}(n,\gamma)^{47}\text{Ca}$	9.6	$^{46}\text{Ca}(^3\text{He},t)^{46}\text{Sc}^i$		
$^{46}\text{Sc}^i$	62.6	$^{46}\text{Ca}(^3\text{He},t)^{46}\text{Sc}^i$	37.4	$^{48}\text{Ti}(p,^3\text{He})^{46}\text{Sc}^i$		
^{46}Ti	52.9	$^{46}\text{Ti} - ^{22}\text{Ne}_{2,091}$	27.1	$^{46}\text{V} - ^{46}\text{Ti}$	8.2	$^{46}\text{Ti}(^3\text{He},t)^{46}\text{V} - ^{47}\text{Ti}()^{47}\text{V}$
^{46}V	58.9	$^{46}\text{V} - ^{46}\text{Ti}$	37.4	$^{46}\text{V} - ^{22}\text{Ne}_{2,091}$	3.7	$^{46}\text{Ti}(^3\text{He},t)^{46}\text{V} - ^{47}\text{Ti}()^{47}\text{V}$
^{47}Ca	90.5	$^{47}\text{Ca}(\beta^-)^{47}\text{Sc}$	9.5	$^{46}\text{Ca}(n,\gamma)^{47}\text{Ca}$		
^{47}Sc	93.0	$^{47}\text{Sc}(\beta^-)^{47}\text{Ti}$	7.0	$^{47}\text{Ca}(\beta^-)^{47}\text{Sc}$		
^{47}Ti	33.2	$^{46}\text{Ti}(^3\text{He},t)^{46}\text{V} - ^{47}\text{Ti}()^{47}\text{V}$	32.6	$^{46}\text{Ti}(d,p)^{47}\text{Ti} - ^{48}\text{Ti}()^{49}\text{Ti}$	22.9	$^{46}\text{Ti}(n,\gamma)^{47}\text{Ti}$
^{47}V	86.2	$^{46}\text{Ti}(p,\gamma)^{47}\text{V}$	13.8	$^{46}\text{Ti}(^3\text{He},t)^{46}\text{V} - ^{47}\text{Ti}()^{47}\text{V}$		
^{47}Cr	75.4	$^{47}\text{Cr} - u$	24.6	$^{50}\text{Cr}(^3\text{He},^6\text{He})^{47}\text{Cr}$		
^{48}Ca	34.4	$^{48}\text{Ca} - ^{41}\text{K}_{1,171}$	34.4	$^{48}\text{Ca} - ^{39}\text{K}_{1,231}$	31.1	$^{48}\text{Ca} - ^{40}\text{Ca}_{1,200}$
^{48}Sc	50.1	$^{48}\text{Ca}(p,n)^{48}\text{Sc}$	49.9	$^{48}\text{Sc}(\beta^-)^{48}\text{Ti}$		
^{48}Ti	88.6	$^{47}\text{Ti}(n,\gamma)^{48}\text{Ti}$	32.5	$^{46}\text{Ti}(d,p)^{47}\text{Ti} - ^{48}\text{Ti}()^{49}\text{Ti}$	7.4	$^{48}\text{Ti} \text{O} - ^{55}\text{Mn}_{1,164}$
^{48}V	89.6	$^{48}\text{V}^i(\text{IT})^{48}\text{V}$	10.4	$^{48}\text{V}(\beta^+)^{48}\text{Ti}$		
$^{48}\text{V}^i$	99.6	$^{46}\text{Ti}(^3\text{He},t)^{46}\text{V} - ^{48}\text{Ti}()^{48}\text{V}^i$	0.4	$^{48}\text{V}^i(\text{IT})^{48}\text{V}$		
^{49}Sc	71.0	$^{48}\text{Ca}(p,\gamma)^{49}\text{Sc}$	29.0	$^{49}\text{Sc}(\beta^-)^{49}\text{Ti}$		
^{49}Ti	100.0	$^{48}\text{Ti}(n,\gamma)^{49}\text{Ti}$	2.8	$^{49}\text{Ti}(n,\gamma)^{50}\text{Ti}$	0.8	$^{49}\text{Ti} \text{ } ^{37}\text{Cl} - ^{51}\text{V} \text{ } ^{35}\text{Cl}$
^{49}Mn	82.2	$^{49}\text{Mn} - u$	17.8	$^{54}\text{Fe}(p,^6\text{He})^{49}\text{Mn}$		
^{50}Ti	97.1	$^{49}\text{Ti}(n,\gamma)^{50}\text{Ti}$	2.9	$^{50}\text{Ti}(p,\gamma)^{51}\text{V}$		
$^{50}\text{V}^i$	100.0	$^{46}\text{Ti}(^3\text{He},t)^{46}\text{V} - ^{50}\text{Ti}()^{50}\text{V}^i$				
^{50}Cr	49.7	$^{50}\text{Cr}(n,\gamma)^{51}\text{Cr}$	47.5	$^{50}\text{Cr}(p,\gamma)^{51}\text{Mn}$	2.3	$^{50}\text{Cr}(p,\gamma)^{51}\text{Mn}^i$
^{50}Mn	52.0	$^{50}\text{Mn} - ^{50}\text{Cr}$	36.5	$^{50}\text{Mn}^m - ^{50}\text{Mn}$	11.5	$^{50}\text{Cr}(^3\text{He},t)^{50}\text{Mn} - ^{54}\text{Fe}()^{54}\text{Co}$
$^{50}\text{Mn}^m$	81.2	$^{50}\text{Mn}^m - ^{50}\text{Cr}$	18.8	$^{50}\text{Mn}^m - ^{50}\text{Mn}$		
^{51}V	46.9	$^{51}\text{V}(p,n)^{51}\text{Cr}$	34.8	$^{50}\text{Ti}(p,\gamma)^{51}\text{V}$	10.2	$^{49}\text{Ti} \text{ } ^{37}\text{Cl} - ^{51}\text{V} \text{ } ^{35}\text{Cl}$
^{51}Cr	51.1	$^{51}\text{V}(p,n)^{51}\text{Cr}$	48.9	$^{50}\text{Cr}(n,\gamma)^{51}\text{Cr}$		
^{51}Mn	50.6	$^{54}\text{Fe}(p,\alpha)^{51}\text{Mn}$	49.4	$^{50}\text{Cr}(p,\gamma)^{51}\text{Mn}$		
$^{51}\text{Mn}^i$	89.6	$^{50}\text{Cr}(p,\gamma)^{51}\text{Mn}^i$	10.4	$^{54}\text{Fe}(p,\alpha)^{51}\text{Mn}^i$		
^{51}Fe	64.3	$^{51}\text{Fe} - u$	35.7	$^{54}\text{Fe}(^3\text{He},^6\text{He})^{51}\text{Fe}$		
^{52}Ca	61.3	$^{52}\text{Ca} - ^{52}\text{Cr}$	34.1	$^{52}\text{Ca} - ^{58}\text{Ni}_{,897}$	4.6	$^{52}\text{Ca}(\beta^-)^{52}\text{Sc}$
^{52}Sc	53.9	$^{52}\text{Sc} - u$	46.1	$^{52}\text{Ca}(\beta^-)^{52}\text{Sc}$		
^{52}Cr	77.2	$^{52}\text{Cr}(n,\gamma)^{53}\text{Cr}$	20.0	$^{52}\text{Cr}(p,\gamma)^{53}\text{Mn}$	2.7	$^{51}\text{V}(p,\gamma)^{52}\text{Cr}$
^{53}Cr	79.5	$^{53}\text{Cr}(n,\gamma)^{54}\text{Cr}$	20.5	$^{52}\text{Cr}(n,\gamma)^{53}\text{Cr}$		
^{53}Mn	66.9	$^{52}\text{Cr}(p,\gamma)^{53}\text{Mn}$	33.1	$^{56}\text{Fe}(p,\alpha)^{53}\text{Mn}$		
^{53}Fe	100.0	$^{54}\text{Fe}(d,t)^{53}\text{Fe}$				
^{53}Co	94.3	$^{53}\text{Co} - ^{53}\text{Fe}$	5.7	$^{53}\text{Co}^m - ^{53}\text{Co}$		
$^{53}\text{Co}^m$	59.6	$^{53}\text{Co}^m - ^{53}\text{Fe}$	40.4	$^{53}\text{Co}^m - ^{53}\text{Co}$		
^{54}Cr	81.2	$^{54}\text{Cr}(p,\gamma)^{55}\text{Mn}$	18.8	$^{53}\text{Cr}(n,\gamma)^{54}\text{Cr}$		
$^{54}\text{Mn}^i$	51.2	$^{52}\text{Cr}(^3\text{He},p)^{54}\text{Mn}^i$	48.8	$^{54}\text{Cr}(^3\text{He},t)^{54}\text{Mn}^i$		

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
^{54}Fe	71.6	$^{54}\text{Fe}(n,\gamma)^{55}\text{Fe}$	19.4	$^{54}\text{Fe}(p,\gamma)^{55}\text{Co}$	6.8	$^{54}\text{Fe}(p,\alpha)^{51}\text{Mn}$
^{54}Co	46.9	$^{54}\text{Co}-^{54}\text{Fe}$	29.7	$^{54}\text{Co}^m-^{54}\text{Co}$	23.5	$^{50}\text{Cr}(^3\text{He},t)^{50}\text{Mn}-^{54}\text{Fe}()^{54}\text{Co}$
$^{54}\text{Co}^m$	80.8	$^{54}\text{Co}^m-^{54}\text{Fe}$	19.2	$^{54}\text{Co}^m-^{54}\text{Co}$		
^{55}Ti	52.2	$^{55}\text{Ti}(\beta^-)^{55}\text{V}$	47.8	$^{55}\text{Ti}-u$		
^{55}V	90.4	$^{55}\text{V}(\beta^-)^{55}\text{Cr}$	9.6	$^{55}\text{Ti}(\beta^-)^{55}\text{V}$		
^{55}Cr	100.0	$^{54}\text{Cr}(n,\gamma)^{55}\text{Cr}$				
^{55}Mn	32.2	$^{55}\text{Mn}-^{85}\text{Rb}_{.647}$	26.3	$^{55}\text{Mn}(p,\gamma)^{56}\text{Fe}$	18.5	$^{48}\text{Ti O}-^{55}\text{Mn}_{1.164}$
^{55}Fe	81.3	$^{55}\text{Fe}(\epsilon)^{55}\text{Mn}$	18.7	$^{54}\text{Fe}(n,\gamma)^{55}\text{Fe}$		
^{55}Co	54.5	$^{54}\text{Fe}(p,\gamma)^{55}\text{Co}$	33.3	$^{56}\text{Ni}-^{55}\text{Co}_{1.018}$	12.2	$^{58}\text{Ni}(p,\alpha)^{55}\text{Co}$
^{56}Ti	87.8	$^{56}\text{Ti}-u$	12.2	$^{56}\text{Ti}(\beta^-)^{56}\text{V}$		
^{56}V	75.7	$^{56}\text{V}-u$	24.3	$^{56}\text{Ti}(\beta^-)^{56}\text{V}$		
^{56}Mn	89.2	$^{55}\text{Mn}(n,\gamma)^{56}\text{Mn}$	10.8	$^{56}\text{Mn}-^{85}\text{Rb}_{.659}$		
^{56}Fe	63.0	$^{55}\text{Mn}(p,\gamma)^{56}\text{Fe}$	15.5	$^{56}\text{Fe}(n,\gamma)^{57}\text{Fe}$	13.4	$^{56}\text{Fe}-^{58}\text{Ni}_{.966}$
^{56}Co	52.8	$^{56}\text{Co}-^{58}\text{Ni}_{.966}$	47.2	$^{56}\text{Ni}-^{56}\text{Co}$		
^{56}Ni	37.4	$^{56}\text{Ni}-^{56}\text{Fe}$	26.9	$^{56}\text{Ni}-^{55}\text{Co}_{1.018}$	19.8	$^{56}\text{Ni}-^{56}\text{Co}$
^{57}Ti	93.6	$^{57}\text{Ti}-u$	6.4	$^{57}\text{Ti}(\beta^-)^{57}\text{V}$		
^{57}V	94.7	$^{57}\text{V}-u$	5.3	$^{57}\text{Ti}(\beta^-)^{57}\text{V}$		
^{57}Mn	49.4	$^{57}\text{Mn}-^{85}\text{Rb}_{.671}$	33.3	$^{57}\text{Mn}-^{39}\text{K}_{1.462}$	17.2	$^{55}\text{Mn}(t,p)^{57}\text{Mn}$
^{57}Fe	83.6	$^{56}\text{Fe}(n,\gamma)^{57}\text{Fe}$	12.6	$^{57}\text{Fe}-^{58}\text{Ni}_{.983}$	1.6	$^{57}\text{Cu}-^{57}\text{Fe}$
^{57}Co	33.8	$^{60}\text{Ni}(p,\alpha)^{57}\text{Co}$	29.3	$^{58}\text{Fe}(p,\gamma)^{59}\text{Co}-^{56}\text{Fe}()^{57}\text{Co}$	27.2	$^{56}\text{Fe}(p,\gamma)^{57}\text{Co}$
^{57}Ni	51.2	$^{57}\text{Ni}-^{58}\text{Ni}_{.983}$	48.8	$^{57}\text{Cu}-^{57}\text{Ni}$		
^{57}Cu	47.5	$^{57}\text{Cu}-^{56}\text{Ni}_{1.018}$	27.7	$^{57}\text{Cu}-^{57}\text{Fe}$	24.8	$^{57}\text{Cu}-^{57}\text{Ni}$
^{58}Fe	94.5	$^{57}\text{Fe}(n,\gamma)^{58}\text{Fe}$	5.5	$^{58}\text{Fe}(p,\gamma)^{59}\text{Co}-^{56}\text{Fe}()^{57}\text{Co}$		
^{58}Co	60.9	$^{59}\text{Co}(d,t)^{58}\text{Co}$	25.1	$^{60}\text{Ni}(d,\alpha)^{58}\text{Co}$	13.9	$^{57}\text{Fe}(p,\gamma)^{58}\text{Co}$
^{58}Ni	45.6	$^{58}\text{Ni}(n,\gamma)^{59}\text{Ni}$	21.3	$^{57}\text{Fe}-^{58}\text{Ni}_{.983}$	18.3	$^{56}\text{Fe}-^{58}\text{Ni}_{.966}$
^{58}Cu	90.2	$^{58}\text{Cu}-^{58}\text{Ni}$	9.8	$^{59}\text{Zn}-^{58}\text{Cu}_{1.017}$		
^{59}Co	91.5	$^{59}\text{Co}(p,n)^{59}\text{Ni}$	7.5	$^{58}\text{Fe}(p,\gamma)^{59}\text{Co}-^{56}\text{Fe}()^{57}\text{Co}$	1.0	$^{59}\text{Co}(d,t)^{58}\text{Co}$
^{59}Ni	53.9	$^{58}\text{Ni}(n,\gamma)^{59}\text{Ni}$	43.1	$^{59}\text{Ni}(n,\gamma)^{60}\text{Ni}$	3.0	$^{59}\text{Co}(p,n)^{59}\text{Ni}$
^{59}Cu	62.7	$^{58}\text{Ni}(p,\gamma)^{59}\text{Cu}$	30.1	$^{60}\text{Zn}-^{59}\text{Cu}_{1.017}$	7.1	$^{59}\text{Zn}-^{59}\text{Cu}$
^{59}Zn	73.4	$^{59}\text{Zn}-^{59}\text{Cu}$	26.6	$^{59}\text{Zn}-^{58}\text{Cu}_{1.017}$		
^{60}Ni	56.3	$^{59}\text{Ni}(n,\gamma)^{60}\text{Ni}$	29.7	$^{60}\text{Ni}(n,\gamma)^{61}\text{Ni}$	10.5	$^{60}\text{Ni}-^{85}\text{Rb}_{.706}$
$^{60}\text{Cu}^i$	73.5	$^{60}\text{Ni}(^3\text{He},t)^{60}\text{Cu}^i$	26.5	$^{58}\text{Ni}(^3\text{He},p)^{60}\text{Cu}^i$		
^{60}Zn	64.8	$^{60}\text{Zn}-^{58}\text{Ni}_{1.034}$	35.2	$^{60}\text{Zn}-^{59}\text{Cu}_{1.017}$		
^{61}Ni	70.1	$^{60}\text{Ni}(n,\gamma)^{61}\text{Ni}$	29.9	$^{61}\text{Ni}(n,\gamma)^{62}\text{Ni}$		
^{61}Zn	95.4	$^{64}\text{Zn}(^3\text{He},^6\text{He})^{61}\text{Zn}$	4.6	$^{61}\text{Ga}(\beta^+)^{61}\text{Zn}$		
^{61}Ga	52.2	$^{61}\text{Ga}(\beta^+)^{61}\text{Zn}$	47.8	$^{61}\text{Ga}-u$		
^{62}Ni	60.5	$^{61}\text{Ni}(n,\gamma)^{62}\text{Ni}$	20.7	$^{62}\text{Ni}(p,\gamma)^{63}\text{Cu}$	14.2	$^{62}\text{Ni}(n,\gamma)^{63}\text{Ni}$
^{62}Zn	67.7	$^{62}\text{Zn}-^{62}\text{Ni}$	32.3	$^{62}\text{Ga}-^{62}\text{Zn}$		
^{62}Ga	51.7	$^{62}\text{Ga}-^{62}\text{Ni}$	48.3	$^{62}\text{Ga}-^{62}\text{Zn}$		
^{63}Fe	57.3	$^{63}\text{Fe}-^{39}\text{K}_{1.615}$	21.3	$^{63}\text{Fe}-\text{H C}_2\text{ F}_2$	21.3	$^{63}\text{Fe}-\text{C }^{32}\text{S F}$
^{63}Co	86.2	$^{64}\text{Ni}(t,\alpha)^{63}\text{Co}$	13.8	$^{63}\text{Co}(\beta^-)^{63}\text{Ni}$		
^{63}Ni	57.5	$^{63}\text{Ni}(\beta^-)^{63}\text{Cu}$	27.1	$^{62}\text{Ni}(n,\gamma)^{63}\text{Ni}$	15.4	$^{63}\text{Ni}(n,\gamma)^{64}\text{Ni}$
^{63}Cu	41.1	$^{63}\text{Ni}(\beta^-)^{63}\text{Cu}$	39.0	$^{62}\text{Ni}(p,\gamma)^{63}\text{Cu}$	13.4	$^{63}\text{Cu}(n,\gamma)^{64}\text{Cu}$
^{63}Zn	72.9	$^{64}\text{Zn}(d,t)^{63}\text{Zn}$	27.1	$^{63}\text{Cu}(p,n)^{63}\text{Zn}$		
$^{64}\text{Co}^m$	86.8	$\text{H C}_2\text{ F}_2-^{64}\text{Co}^m_{.984}$	13.2	$^{64}\text{Co}^m-^{32}\text{S O}_2$		
^{64}Ni	82.5	$^{63}\text{Ni}(n,\gamma)^{64}\text{Ni}$	17.5	$^{64}\text{Ni}-^{85}\text{Rb}_{.753}$		
^{64}Cu	86.1	$^{63}\text{Cu}(n,\gamma)^{64}\text{Cu}$	13.9	$^{64}\text{Cu}(\beta^-)^{64}\text{Zn}$		
^{64}Zn	44.6	$^{64}\text{Zn}(n,\gamma)^{65}\text{Zn}$	30.2	$^{64}\text{Cu}(\beta^-)^{64}\text{Zn}$	17.8	$^{64}\text{Zn}(p,\gamma)^{65}\text{Ga}$
^{64}Ga	37.7	$^{64}\text{Ga}-^{85}\text{Rb}_{.753}$	32.7	$\text{C}_5\text{ H}_2-^{64}\text{Ga}_{.969}$	13.1	$^{64}\text{Ga}-^{64}\text{Zn}$
$^{64}\text{Ga}^i$	83.3	$^{64}\text{Ga}^i(\text{IT})^{64}\text{Ga}$	16.7	$^{64}\text{Zn}(^3\text{He},t)^{64}\text{Ga}^i$		
^{65}Cu	44.6	$^{65}\text{Cu}(p,n)^{65}\text{Zn}$	35.0	$^{65}\text{Cu}-^{85}\text{Rb}_{.765}$	10.4	$^{65}\text{Cu}(n,\gamma)^{66}\text{Cu}$
^{65}Zn	53.5	$^{64}\text{Zn}(n,\gamma)^{65}\text{Zn}$	46.5	$^{65}\text{Cu}(p,n)^{65}\text{Zn}$		
^{65}Ga	65.4	$^{64}\text{Zn}(p,\gamma)^{65}\text{Ga}$	34.6	$^{65}\text{Ga}-^{85}\text{Rb}_{.765}$		
^{65}Ge	56.7	$\text{C}_5\text{ H}_2-^{65}\text{Ge}_{.939}$	29.2	$^{65}\text{Ge O H}-^{85}\text{Rb}_{.965}$	14.0	$^{65}\text{Ge H}-^{85}\text{Rb}_{.776}$
^{66}Cu	89.4	$^{65}\text{Cu}(n,\gamma)^{66}\text{Cu}$	10.6	$^{66}\text{Cu}-^{85}\text{Rb}_{.776}$		

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
^{66}Zn	83.0	$^{66}\text{Zn}(p,\alpha)^{63}\text{Cu}$	14.6	$^{66}\text{Zn}(n,\gamma)^{67}\text{Zn}$	2.4	$^{67}\text{Zn N}-^{66}\text{Zn }^{15}\text{N}$
^{67}Zn	70.5	$^{66}\text{Zn}(n,\gamma)^{67}\text{Zn}$	16.0	$^{67}\text{Zn}(p,n)^{67}\text{Ga}$	11.6	$^{67}\text{Zn N}-^{66}\text{Zn }^{15}\text{N}$
^{67}Ga	51.9	$^{67}\text{Zn}(p,n)^{67}\text{Ga}$	48.1	$^{70}\text{Ge}(p,\alpha)^{67}\text{Ga}$		
^{67}As	77.4	$^{67}\text{As}-^{85}\text{Rb}_{.788}$	22.6	$^{67}\text{As O}-^{85}\text{Rb}_{.976}$		
^{68}Zn	98.1	$^{67}\text{Zn}(n,\gamma)^{68}\text{Zn}$	1.9	$^{70}\text{Zn }^{35}\text{Cl}-^{68}\text{Zn }^{37}\text{Cl}$		
^{68}As	87.5	$^{68}\text{As}-\text{C}_5\text{H}_8$	12.5	$\text{C F}_3-^{68}\text{As}_{1.015}$		
^{69}Ga	64.6	$^{69}\text{Ga}-^{85}\text{Rb}_{.812}$	35.4	$^{69}\text{Ga}(n,\gamma)^{70}\text{Ga}$		
^{69}Ge	100.0	$^{69}\text{Ga}(p,n)^{69}\text{Ge}$				
^{69}As	81.8	$^{69}\text{As}(\beta^+)^{69}\text{Ge}$	18.2	$^{69}\text{Se}(\beta^+)^{69}\text{As}$		
^{69}Se	100.0	$\text{C F}_3-^{69}\text{Se}$				
^{70}Zn	87.6	$^{70}\text{Zn}(p,n)^{70}\text{Ga}$	9.0	$^{70}\text{Zn }^{35}\text{Cl}-^{68}\text{Zn }^{37}\text{Cl}$	3.4	$^{70}\text{Zn}(d,p)^{71}\text{Zn}$
^{70}Ga	64.1	$^{69}\text{Ga}(n,\gamma)^{70}\text{Ga}$	31.4	$^{70}\text{Ga}-^{85}\text{Rb}_{.824}$	4.5	$^{70}\text{Zn}(p,n)^{70}\text{Ga}$
^{70}Ge	86.1	$^{70}\text{Ge}(n,\gamma)^{71}\text{Ge}$	13.9	$^{70}\text{Ge}(p,\alpha)^{67}\text{Ga}$		
^{71}Zn	93.2	$^{71}\text{Zn}^m(\text{IT})^{71}\text{Zn}$	6.8	$^{70}\text{Zn}(d,p)^{71}\text{Zn}$		
$^{71}\text{Zn}^m$	94.7	$^{71}\text{Zn}^m-^{85}\text{Rb}_{.835}$	5.3	$^{71}\text{Zn}^m(\text{IT})^{71}\text{Zn}$		
^{71}Ga	53.8	$^{71}\text{Ga}-^{85}\text{Rb}_{.835}$	33.4	$^{71}\text{Ga}(n,\gamma)^{72}\text{Ga}$	12.9	$^{71}\text{Ge}(\epsilon)^{71}\text{Ga}$
^{71}Ge	86.3	$^{71}\text{Ge}(\epsilon)^{71}\text{Ga}$	13.7	$^{70}\text{Ge}(n,\gamma)^{71}\text{Ge}$		
^{71}Br	100.0	$^{71}\text{Br H}_2-\text{C}_4\text{H}_9\text{O}$				
^{71}Kr	83.8	$^{71}\text{Kr-u}$	16.2	$^{71}\text{Kr}(\epsilon)^{71}\text{Br}$		
^{72}Ga	65.4	$^{71}\text{Ga}(n,\gamma)^{72}\text{Ga}$	34.6	$^{72}\text{Ga}-^{85}\text{Rb}_{.847}$		
^{72}Ge	100.0	$^{72}\text{Ge}(n,\gamma)^{73}\text{Ge}$				
^{73}Cu	75.4	$^{73}\text{Cu}-^{72}\text{Ge}_{1.014}$	24.6	$^{73}\text{Cu}-^{85}\text{Rb}_{.859}$		
^{73}Ge	100.0	$^{73}\text{Ge}(n,\gamma)^{74}\text{Ge}$				
^{73}As	92.8	$^{72}\text{Ge}(\text{}^3\text{He,d})^{73}\text{As}$	7.2	$^{73}\text{Se}(\beta^+)^{73}\text{As}$		
^{73}Se	52.5	$^{73}\text{Se}-^{85}\text{Rb}_{.859}$	47.5	$^{73}\text{Se}(\beta^+)^{73}\text{As}$		
^{74}Ge	100.0	$^{74}\text{Ge}-^{84}\text{Kr}$				
^{74}As	82.1	$^{74}\text{As}(\beta^+)^{74}\text{Ge}$	17.9	$^{74}\text{As}(\beta^-)^{74}\text{Se}$		
^{74}Se	100.0	$^{74}\text{Se}-^{74}\text{Ge}$				
^{74}Br	84.9	$^{74}\text{Br }^{27}\text{Al}-^{85}\text{Rb}_{1.188}$	15.1	$^{74}\text{Se}(p,n)^{74}\text{Br}$		
^{74}Kr	93.3	$^{74}\text{Kr}-^{85}\text{Rb}_{.871}$	6.7	$^{74}\text{Rb}(\beta^+)^{74}\text{Kr}$		
^{74}Rb	82.8	$^{74}\text{Rb}-^{85}\text{Rb}_{.871}$	17.2	$^{74}\text{Rb}(\beta^+)^{74}\text{Kr}$		
^{75}As	85.3	$^{75}\text{As}(p,n)^{75}\text{Se}$	14.7	$^{78}\text{Se}(p,\alpha)^{75}\text{As}$		
^{75}Se	99.9	$^{74}\text{Se}(n,\gamma)^{75}\text{Se}$	0.1	$^{75}\text{As}(p,n)^{75}\text{Se}$		
^{76}Zn	61.1	$^{76}\text{Zn}-^{85}\text{Rb}_{.894}$	38.9	$^{76}\text{Zn}-^{88}\text{Rb}_{.864}$		
^{76}Ge	100.0	$^{76}\text{Ge}-^{76}\text{Se}$				
^{76}Se	100.0	$^{76}\text{Se}-^{84}\text{Kr}$				
^{76}Kr	84.2	$^{76}\text{Kr}-^{85}\text{Rb}_{.894}$	15.8	$^{80}\text{Kr}(\alpha,^6\text{He})^{78}\text{Kr}-^{78}\text{Kr}()^{76}\text{Kr}$		
^{77}Zn	77.9	$^{77}\text{Zn}-^{85}\text{Rb}_{.906}$	22.1	$^{77}\text{Zn}-^{88}\text{Rb}_{.875}$		
^{77}As	32.7	$^{76}\text{Ge}(\text{}^3\text{He,d})^{77}\text{As}$	30.6	$^{80}\text{Se}(p,\alpha)^{77}\text{As}$	18.4	$^{77}\text{As}(\beta^-)^{77}\text{Se}$
^{77}Se	99.9	$^{76}\text{Se}(n,\gamma)^{77}\text{Se}$	0.1	$^{77}\text{Se}(n,\gamma)^{78}\text{Se}$		
^{78}Zn	51.6	$^{78}\text{Zn}-^{88}\text{Rb}_{.886}$	48.4	$^{78}\text{Zn}-^{85}\text{Rb}_{.918}$		
^{78}Ga	61.7	$^{78}\text{Ga}-^{85}\text{Rb}_{.918}$	38.3	$^{78}\text{Ga}-^{88}\text{Rb}_{.886}$		
^{78}Se	98.9	$^{77}\text{Se}(n,\gamma)^{78}\text{Se}$	0.5	$^{78}\text{Se}(p,\alpha)^{75}\text{As}$	0.5	$^{80}\text{Se}(p,t)^{78}\text{Se}$
^{78}Kr	57.3	$^{78}\text{Kr}-^{86}\text{Kr}_{.907}$	41.1	$^{78}\text{Kr}-^{85}\text{Rb}_{.918}$	1.7	$^{80}\text{Kr}(\alpha,^6\text{He})^{78}\text{Kr}-^{78}\text{Kr}()^{76}\text{Kr}$
^{79}Zn	67.7	$^{79}\text{Zn}-^{88}\text{Rb}_{.898}$	32.3	$^{79}\text{Zn}-^{85}\text{Rb}_{.929}$		
^{79}Ga	100.0	$^{79}\text{Ga}-^{88}\text{Rb}_{.898}$				
^{79}Ge	86.2	$^{79}\text{Ga}(\beta^-)^{79}\text{Ge}$	13.8	$^{79}\text{Ge}(\beta^-)^{79}\text{As}$		
^{79}As	99.7	$^{80}\text{Se}(d,^3\text{He})^{79}\text{As}$	0.3	$^{79}\text{Ge}(\beta^-)^{79}\text{As}$		
^{80}Zn	85.6	$^{80}\text{Zn}-^{85}\text{Rb}_{.941}$	14.4	$^{80}\text{Zn}-^{88}\text{Rb}_{.909}$		
^{80}Se	34.3	$^{80}\text{Se}(p,t)^{78}\text{Se}$	31.5	$^{80}\text{Se}(n,\gamma)^{81}\text{Se}$	17.2	$^{82}\text{Se }^{35}\text{Cl}-^{80}\text{Se }^{37}\text{Cl}$
^{80}Kr	46.2	$^{80}\text{Kr}-^{86}\text{Kr}_{.930}$	19.4	$^{80}\text{Kr}-^{85}\text{Rb}_{.941}$	6.8	$^{81}\text{Se}-^{80}\text{Kr}_{1.013}$
^{80}Sr	100.0	$^{80}\text{Sr}-^{85}\text{Rb}_{.941}$				
^{81}As	75.1	$^{81}\text{As}-^{88}\text{Rb}_{.920}$	24.9	$^{82}\text{Se}(d,^3\text{He})^{81}\text{As}$		
^{81}Se	65.8	$^{80}\text{Se}(n,\gamma)^{81}\text{Se}$	28.8	$^{81}\text{Se}-^{80}\text{Kr}_{1.013}$	5.4	$^{82}\text{Se}(p,d)^{81}\text{Se}$
^{81}Br	90.3	$^{81}\text{Br}(n,\gamma)^{82}\text{Br}$	9.2	$^{81}\text{Kr}(\epsilon)^{81}\text{Br}$	0.5	$^{87}\text{Rb}(\text{}^3\text{He,t})^{87}\text{Sr}-^{81}\text{Br}()^{81}\text{Kr}$

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
^{81}Kr	84.2	$^{81}\text{Kr}(\epsilon)^{81}\text{Br}$	11.0	$^{80}\text{Kr}(\text{d,p})^{81}\text{Kr}$	4.8	$^{87}\text{Rb}(\text{}^3\text{He,t})^{87}\text{Sr}-^{81}\text{Br}(\text{}^0)^{81}\text{Kr}$
^{81}Rb	76.1	$^{81}\text{Rb}-^{85}\text{Rb}_{.953}$	23.9	$^{80}\text{Kr}(\text{}^3\text{He,d})^{81}\text{Rb}$		
^{81}Y	100.0	$^{81}\text{Y O}-^{97}\text{Mo}$				
^{81}Zr	67.8	$^{81}\text{Zr}(\epsilon\text{p})^{80}\text{Sr}$	32.2	$^{81}\text{Zr}(\beta^+)^{81}\text{Y}$		
^{82}Se	37.5	$^{82}\text{Se }^{35}\text{Cl}-^{80}\text{Se }^{37}\text{Cl}$	34.0	$^{82}\text{Se}-^{82}\text{Kr}$	10.5	$^{82}\text{Se}(\text{p,d})^{81}\text{Se}$
^{82}Br	90.4	$^{82}\text{Br}(\beta^-)^{82}\text{Kr}$	9.6	$^{81}\text{Br}(\text{n},\gamma)^{82}\text{Br}$		
^{82}Kr	73.2	$^{82}\text{Kr}-^{86}\text{Kr}_{.953}$	13.1	$^{82}\text{Kr}-^{85}\text{Rb}_{.965}$	9.5	$^{82}\text{Se}-^{82}\text{Kr}$
^{82}Sr	64.7	$^{82}\text{Sr}-^{85}\text{Rb}_{.965}$	35.3	$^{84}\text{Sr}(\text{p,t})^{82}\text{Sr}$		
^{83}Br	55.7	$^{83}\text{Br}(\beta^-)^{83}\text{Kr}$	44.3	$^{82}\text{Se}(\text{}^3\text{He,d})^{83}\text{Br}$		
^{83}Kr	99.8	$^{83}\text{Kr}(\text{n},\gamma)^{84}\text{Kr}$	0.2	$^{83}\text{Br}(\beta^-)^{83}\text{Kr}$		
^{83}Rb	100.0	$^{83}\text{Rb}-^{85}\text{Rb}_{.976}$				
^{83}Sr	58.7	$^{83}\text{Sr}-^{83}\text{Rb}$	41.3	$^{83}\text{Sr}(\beta^+)^{83}\text{Rb}$		
^{84}Se	99.9	$^{84}\text{Se}-^{88}\text{Rb}_{.955}$	0.1	$^{84}\text{Se}(\beta^-)^{84}\text{Br}$		
^{84}Br	73.6	$^{84}\text{Br}(\beta^-)^{84}\text{Kr}$	26.4	$^{84}\text{Se}(\beta^-)^{84}\text{Br}$		
^{84}Kr	36.9	$^{86}\text{Kr}-^{84}\text{Kr}$	25.3	$^{84}\text{Kr}-\text{N}_6$	12.3	$^{85}\text{Rb}-^{84}\text{Kr}$
^{84}Rb	72.7	$^{84}\text{Rb}(\beta^+)^{84}\text{Kr}$	27.3	$^{84}\text{Rb}(\beta^-)^{84}\text{Sr}$		
^{84}Sr	88.8	$^{84}\text{Sr}-^{85}\text{Rb}_{.988}$	6.8	$^{84}\text{Rb}(\beta^-)^{84}\text{Sr}$	2.1	$^{84}\text{Sr}(\text{d,p})^{85}\text{Sr}$
^{84}Y	81.7	$^{84}\text{Y O}-^{97}\text{Mo}_{1.031}$	18.3	$^{84}\text{Y}(\beta^+)^{84}\text{Sr}$		
^{85}Rb	65.8	$^{86}\text{Kr}-^{85}\text{Rb}$	34.2	$^{85}\text{Rb}-^{84}\text{Kr}$		
^{85}Sr	87.9	$^{85}\text{Rb}(\text{}^3\text{He,t})^{85}\text{Sr}$	12.1	$^{84}\text{Sr}(\text{d,p})^{85}\text{Sr}$		
^{86}Kr	28.7	$^{86}\text{Kr}-\text{N}_6$	22.1	$^{86}\text{Kr}-^{84}\text{Kr}$	16.3	$^{129}\text{Xe}_2-^{86}\text{Kr}_3$
^{86}Rb	99.1	$^{85}\text{Rb}(\text{n},\gamma)^{86}\text{Rb}$	0.9	$^{86}\text{Rb}(\beta^-)^{86}\text{Sr}$		
^{86}Sr	52.0	$^{86}\text{Sr}(\text{n},\gamma)^{87}\text{Sr}$	48.0	$^{86}\text{Rb}(\beta^-)^{86}\text{Sr}$		
^{86}Zr	69.3	$^{86}\text{Zr}-^{85}\text{Rb}_{1.012}$	30.7	$^{86}\text{Zr O}-^{98}\text{Mo}_{1.041}$		
^{87}Rb	81.3	$^{87}\text{Rb}-^{86}\text{Kr}$	18.7	$^{87}\text{Rb}-\text{C}_6\text{H}_{14}$		
^{87}Sr	47.7	$^{86}\text{Sr}(\text{n},\gamma)^{87}\text{Sr}$	46.3	$^{87}\text{Rb}(\text{}^3\text{He,t})^{87}\text{Sr}-^{81}\text{Br}(\text{}^0)^{81}\text{Kr}$	6.0	$^{87}\text{Sr}(\text{n},\gamma)^{88}\text{Sr}$
^{87}Zr	74.1	$^{87}\text{Zr O}-^{97}\text{Mo}_{1.062}$	25.9	$^{90}\text{Zr}(\text{}^3\text{He},\text{}^6\text{He})^{87}\text{Zr}$		
^{87}Mo	53.3	$^{87}\text{Mo}-^{85}\text{Rb}_{1.024}$	46.7	$^{87}\text{Mo}_{1.069}-\text{C}_7\text{H}_9$		
^{88}Rb	99.0	$^{87}\text{Rb}(\text{n},\gamma)^{88}\text{Rb}$	0.2	$^{76}\text{Zn}-^{88}\text{Rb}_{.864}$	0.1	$^{94}\text{Rb}-^{88}\text{Rb}_{1.068}$
^{88}Sr	93.9	$^{87}\text{Sr}(\text{n},\gamma)^{88}\text{Sr}$	5.1	$^{88}\text{Sr}(\text{p},\gamma)^{89}\text{Y}$	1.0	$^{88}\text{Sr}(\text{n},\gamma)^{89}\text{Sr}$
^{88}Zr	71.2	$^{88}\text{Zr O}-^{98}\text{Mo}_{1.061}$	28.6	$^{90}\text{Zr}(\text{p,t})^{88}\text{Zr}$	0.2	$^{88}\text{Nb}(\beta^+)^{88}\text{Zr}$
^{88}Nb	67.9	$^{88}\text{Nb O}-^{98}\text{Mo}_{1.061}$	32.1	$^{88}\text{Nb}(\beta^+)^{88}\text{Zr}$		
^{89}Rb	56.2	$^{89}\text{Rb}(\beta^-)^{89}\text{Sr}$	42.4	$^{89}\text{Rb}-^{85}\text{Rb}_{1.047}$	1.3	$^{91}\text{Rb}-^{93}\text{Rb}_{.489}\text{}^{89}\text{Rb}_{.511}$
^{89}Sr	99.0	$^{88}\text{Sr}(\text{n},\gamma)^{89}\text{Sr}$	1.0	$^{89}\text{Rb}(\beta^-)^{89}\text{Sr}$		
^{89}Y	54.0	$^{89}\text{Y}(\text{n},\gamma)^{90}\text{Y}$	28.9	$^{88}\text{Sr}(\text{p},\gamma)^{89}\text{Y}$	13.4	$^{89}\text{Y}(\text{p},\gamma)^{90}\text{Zr}$
^{89}Zr	81.6	$^{89}\text{Zr}(\beta^+)^{89}\text{Y}$	18.0	$^{90}\text{Zr}(\text{d,t})^{89}\text{Zr}$	0.4	$^{89}\text{Nb}(\beta^+)^{89}\text{Zr}$
^{89}Nb	77.8	$^{89}\text{Nb-u}$	22.2	$^{89}\text{Nb}(\beta^+)^{89}\text{Zr}$		
^{90}Rb	60.4	$^{90}\text{Rb}-^{85}\text{Rb}_{1.059}$	39.6	$^{90}\text{Rb}(\beta^-)^{90}\text{Sr}$		
^{90}Sr	96.0	$^{90}\text{Sr}(\beta^-)^{90}\text{Y}$	4.0	$^{90}\text{Rb}(\beta^-)^{90}\text{Sr}$		
^{90}Y	51.1	$^{90}\text{Y}(\beta^-)^{90}\text{Zr}$	46.0	$^{89}\text{Y}(\text{n},\gamma)^{90}\text{Y}$	2.9	$^{90}\text{Sr}(\beta^-)^{90}\text{Y}$
^{90}Zr	69.0	$^{90}\text{Zr}(\text{n},\gamma)^{91}\text{Zr}$	13.7	$^{90}\text{Y}(\beta^-)^{90}\text{Zr}$	6.7	$^{90}\text{Nb}(\beta^+)^{90}\text{Zr}$
^{90}Nb	64.1	$^{90}\text{Nb}(\beta^+)^{90}\text{Zr}$	35.9	$^{90}\text{Mo}(\beta^+)^{90}\text{Nb}$		
^{90}Mo	65.0	$^{90}\text{Mo}-\text{C}_7\text{H}_6$	35.0	$^{90}\text{Mo}(\beta^+)^{90}\text{Nb}$		
^{90}Ru	85.9	$^{90}\text{Ru}-^{85}\text{Rb}_{1.059}$	14.1	$^{90}\text{Ru}_{1.033}-\text{C}_7\text{H}_9$		
^{91}Rb	70.2	$^{91}\text{Rb}-^{85}\text{Rb}_{1.071}$	18.2	$^{91}\text{Rb}(\beta^-)^{91}\text{Sr}$	11.5	$^{91}\text{Rb}-^{93}\text{Rb}_{.489}\text{}^{89}\text{Rb}_{.511}$
^{91}Sr	79.6	$^{91}\text{Sr}(\beta^-)^{91}\text{Y}$	11.9	$^{92}\text{Rb}(\beta^-)^{91}\text{Sr}$	8.5	$^{91}\text{Rb}(\beta^-)^{91}\text{Sr}$
^{91}Y	96.5	$^{91}\text{Y}(\beta^-)^{91}\text{Zr}$	3.5	$^{91}\text{Sr}(\beta^-)^{91}\text{Y}$		
^{91}Zr	67.5	$^{91}\text{Zr}(\text{n},\gamma)^{92}\text{Zr}$	29.9	$^{90}\text{Zr}(\text{n},\gamma)^{91}\text{Zr}$	1.7	$^{91}\text{Y}(\beta^-)^{91}\text{Zr}$
^{91}Nb	96.9	$^{91}\text{Zr}(\text{p,n})^{91}\text{Nb}$	3.1	$^{91}\text{Mo}(\beta^+)^{91}\text{Nb}$		
^{91}Mo	65.2	$^{91}\text{Mo}-\text{C}_7\text{H}_7$	23.5	$^{92}\text{Mo}(\text{p,d})^{91}\text{Mo}$	11.3	$^{91}\text{Mo}(\beta^+)^{91}\text{Nb}$
^{91}Tc	44.9	$^{91}\text{Tc}-\text{C}_7\text{H}_7$	33.0	$^{91}\text{Tc}-^{94}\text{Mo}_{.968}$	22.1	$^{91}\text{Tc}-^{85}\text{Rb}_{1.071}$
^{91}Ru	37.5	$^{91}\text{Ru}-\text{C}_7\text{H}_7$	37.0	$^{91}\text{Ru}-^{85}\text{Rb}_{1.071}$	25.5	$^{91}\text{Ru}-^{94}\text{Mo}_{.968}$
^{92}Rb	53.4	$^{92}\text{Rb}-^{85}\text{Rb}_{1.082}$	31.7	$^{92}\text{Rb}(\beta^-)^{92}\text{Sr}$	14.4	$^{92}\text{Rb}(\beta^-)^{91}\text{Sr}$
^{92}Sr	89.8	$^{92}\text{Sr}-^{85}\text{Rb}_{1.082}$	7.3	$^{92}\text{Rb}(\beta^-)^{92}\text{Sr}$	2.9	$^{92}\text{Sr}(\beta^-)^{92}\text{Y}$
^{92}Y	57.4	$^{92}\text{Y}(\beta^-)^{92}\text{Zr}$	29.3	$^{92}\text{Sr}(\beta^-)^{92}\text{Y}$	13.3	$^{94}\text{Zr}(\text{d},\alpha)^{92}\text{Y}$

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
^{92}Zr	57.4	$^{92}\text{Zr}(n,\gamma)^{93}\text{Zr}$	32.4	$^{91}\text{Zr}(n,\gamma)^{92}\text{Zr}$	9.3	$^{92}\text{Zr}(p,n)^{92}\text{Nb}$
^{92}Nb	64.1	$^{92}\text{Zr}(p,n)^{92}\text{Nb}$	35.9	$^{93}\text{Nb}(\gamma,n)^{92}\text{Nb}$		
^{92}Mo	97.2	$^{92}\text{Mo}-^{85}\text{Rb}_{1.082}$	2.5	$^{92}\text{Mo}(n,\gamma)^{93}\text{Mo}$	0.3	$^{92}\text{Mo}(p,d)^{91}\text{Mo}$
^{92}Tc	60.0	$^{92}\text{Tc}-^{85}\text{Rb}_{1.082}$	40.0	$^{92}\text{Tc}_{.989}-\text{C}_7\text{H}_7$		
^{92}Ru	72.3	$^{92}\text{Ru}-^{85}\text{Rb}_{1.082}$	27.7	$^{92}\text{Ru}_{1.011}-\text{C}_7\text{H}_9$		
^{93}Rb	70.7	$^{93}\text{Rb}-^{85}\text{Rb}_{1.094}$	26.4	$^{93}\text{Rb}(\beta^-)^{93}\text{Sr}$	2.5	$^{91}\text{Rb}-^{93}\text{Rb}_{.489}\ ^{89}\text{Rb}_{.511}$
^{93}Sr	65.8	$^{93}\text{Sr}-^{85}\text{Rb}_{1.094}$	23.8	$^{93}\text{Rb}(\beta^-)^{93}\text{Sr}$	10.4	$^{93}\text{Sr}(\beta^-)^{93}\text{Y}$
^{93}Y	75.9	$^{93}\text{Y}(\beta^-)^{93}\text{Zr}$	24.1	$^{93}\text{Sr}(\beta^-)^{93}\text{Y}$		
^{93}Zr	40.3	$^{92}\text{Zr}(n,\gamma)^{93}\text{Zr}$	29.8	$^{93}\text{Zr}(\beta^-)^{93}\text{Nb}$	29.4	$^{94}\text{Zr}(d,t)^{93}\text{Zr}$
^{93}Nb	44.4	$^{93}\text{Nb}(n,\gamma)^{94}\text{Nb}$	30.2	$^{93}\text{Zr}(\beta^-)^{93}\text{Nb}$	16.1	$^{93}\text{Nb}(p,n)^{93}\text{Mo}$
^{93}Mo	97.4	$^{92}\text{Mo}(n,\gamma)^{93}\text{Mo}$	2.6	$^{93}\text{Nb}(p,n)^{93}\text{Mo}$		
^{93}Ru	73.4	$^{93}\text{Ru}-\text{C}_7\text{H}_9$	26.6	$^{93}\text{Ru}-^{85}\text{Rb}_{1.094}$		
^{93}Rh	55.1	$^{93}\text{Rh}-\text{C}_7\text{H}_9$	44.9	$^{93}\text{Rh}-^{85}\text{Rb}_{1.094}$		
^{94}Rb	70.2	$^{94}\text{Rb}-^{85}\text{Rb}_{1.106}$	29.6	$^{94}\text{Rb}-^{88}\text{Rb}_{1.068}$	0.3	$^{94}\text{Rb}-^{95}\text{Rb}_{.660}\ ^{92}\text{Rb}_{.341}$
^{94}Sr	98.4	$^{94}\text{Sr}-^{85}\text{Rb}_{1.106}$	1.6	$^{94}\text{Sr}(\beta^-)^{94}\text{Y}$		
^{94}Y	49.2	$^{94}\text{Y}(\beta^-)^{94}\text{Zr}$	40.6	$^{94}\text{Sr}(\beta^-)^{94}\text{Y}$	10.2	$^{96}\text{Zr}(d,\alpha)^{94}\text{Y}$
^{94}Zr	64.3	$^{94}\text{Zr}(n,\gamma)^{95}\text{Zr}$	33.4	$^{94}\text{Zr}(d,t)^{93}\text{Zr}$	2.0	$^{94}\text{Y}(\beta^-)^{94}\text{Zr}$
^{94}Nb	55.5	$^{93}\text{Nb}(n,\gamma)^{94}\text{Nb}$	44.5	$^{94}\text{Nb}(\beta^-)^{94}\text{Mo}$		
^{94}Mo	74.5	$^{94}\text{Mo}(n,\gamma)^{95}\text{Mo}$	23.0	$^{94}\text{Mo}-^{85}\text{Rb}_{1.106}$	1.0	$^{94}\text{Nb}(\beta^-)^{94}\text{Mo}$
^{94}Ru	56.2	$^{94}\text{Ru}-^{85}\text{Rb}_{1.106}$	43.8	$^{94}\text{Ru}-\text{C}_7\text{H}_{10}$		
^{94}Rh	62.2	$^{94}\text{Rh}-^{85}\text{Rb}_{1.106}$	37.8	$^{94}\text{Rh}-\text{C}_7\text{H}_{10}$		
^{95}Rb	51.1	$^{95}\text{Rb}(\beta^-)^{95}\text{Sr}$	25.4	$^{95}\text{Rb}-^{96}\text{Rb}_{.742}\ ^{92}\text{Rb}_{.258}$	12.6	$^{94}\text{Rb}-^{95}\text{Rb}_{.660}\ ^{92}\text{Rb}_{.341}$
^{95}Sr	40.0	$^{95}\text{Sr}-^{85}\text{Rb}_{1.118}$	37.9	$^{95}\text{Sr}-^{97}\text{Zr}_{.979}$	20.0	$^{95}\text{Sr}(\beta^-)^{95}\text{Y}$
^{95}Y	55.8	$^{95}\text{Y}(\beta^-)^{95}\text{Zr}$	32.8	$^{95}\text{Sr}(\beta^-)^{95}\text{Y}$	11.4	$^{96}\text{Zr}(t,\alpha)^{95}\text{Y}$
^{95}Zr	45.5	$^{95}\text{Zr}(\beta^-)^{95}\text{Nb}$	30.4	$^{94}\text{Zr}(n,\gamma)^{95}\text{Zr}$	22.9	$^{96}\text{Zr}(d,t)^{95}\text{Zr}$
^{95}Nb	97.3	$^{95}\text{Nb}(\beta^-)^{95}\text{Mo}$	2.7	$^{95}\text{Zr}(\beta^-)^{95}\text{Nb}$		
^{95}Mo	52.3	$^{95}\text{Mo}(n,\gamma)^{96}\text{Mo}$	24.5	$^{94}\text{Mo}(n,\gamma)^{95}\text{Mo}$	22.4	$^{95}\text{Mo}-^{85}\text{Rb}_{1.118}$
^{95}Tc	97.4	$^{95}\text{Tc}(\beta^+)^{95}\text{Mo}$	2.6	$^{95}\text{Ru}(\beta^+)^{95}\text{Tc}$		
^{95}Ru	90.3	$^{96}\text{Ru}(p,d)^{95}\text{Ru}$	9.7	$^{95}\text{Ru}(\beta^+)^{95}\text{Tc}$		
^{95}Rh	85.9	$^{95}\text{Rh}-^{85}\text{Rb}_{1.118}$	14.1	$^{95}\text{Rh}_{.989}-\text{C}_7\text{H}_{10}$		
^{96}Rb	99.7	$^{96}\text{Rb}-^{88}\text{Rb}_{1.091}$	0.3	$^{95}\text{Rb}-^{96}\text{Rb}_{.742}\ ^{92}\text{Rb}_{.258}$		
^{96}Sr	82.6	$^{96}\text{Sr}-^{97}\text{Zr}_{.990}$	17.4	$^{96}\text{Sr}(\beta^-)^{96}\text{Y}$		
^{96}Y	92.0	$^{96}\text{Y}-^{97}\text{Zr}_{.990}$	8.0	$^{96}\text{Sr}(\beta^-)^{96}\text{Y}$		
^{96}Zr	66.8	$^{96}\text{Zr}(n,\gamma)^{97}\text{Zr}$	32.0	$^{96}\text{Zr}(d,t)^{95}\text{Zr}$	0.7	$^{96}\text{Zr}(d,\alpha)^{94}\text{Y}$
^{96}Mo	47.3	$^{95}\text{Mo}(n,\gamma)^{96}\text{Mo}$	31.5	$^{96}\text{Mo}(n,\gamma)^{97}\text{Mo}$	18.5	$^{96}\text{Mo}-^{85}\text{Rb}_{1.129}$
^{96}Ru	100.0	$^{96}\text{Ru}-^{96}\text{Mo}$				
^{97}Rb	87.0	$^{97}\text{Rb}-^{85}\text{Rb}_{1.141}$	12.9	$^{97}\text{Rb}-^{88}\text{Rb}_{1.102}$		
^{97}Sr	87.3	$^{97}\text{Sr}-^{85}\text{Rb}_{1.141}$	12.7	$^{97}\text{Sr}-^{97}\text{Zr}$		
^{97}Zr	47.2	$^{97}\text{Zr}(\beta^-)^{97}\text{Nb}$	32.3	$^{96}\text{Zr}(n,\gamma)^{97}\text{Zr}$	6.4	$^{99}\text{Sr}-^{97}\text{Zr}_{1.021}$
^{97}Nb	73.2	$^{97}\text{Nb}(\beta^-)^{97}\text{Mo}$	26.8	$^{97}\text{Zr}(\beta^-)^{97}\text{Nb}$		
^{97}Mo	63.3	$^{96}\text{Mo}(n,\gamma)^{97}\text{Mo}$	18.8	$^{97}\text{Mo}(n,\gamma)^{98}\text{Mo}$	16.7	$^{97}\text{Mo}-^{85}\text{Rb}_{1.141}$
^{97}Tc	56.2	$^{97}\text{Mo}(p,n)^{97}\text{Tc}$	43.8	$^{96}\text{Mo}(\ ^3\text{He},d)^{97}\text{Tc}$		
^{98}Sr	85.0	$^{98}\text{Sr}-^{85}\text{Rb}_{1.153}$	15.0	$^{98}\text{Sr}-^{97}\text{Zr}_{1.010}$		
^{98}Zr	82.2	$^{98}\text{Zr}-^{97}\text{Zr}_{1.010}$	17.8	$^{96}\text{Zr}(t,p)^{98}\text{Zr}$		
^{98}Mo	80.9	$^{97}\text{Mo}(n,\gamma)^{98}\text{Mo}$	14.4	$^{98}\text{Mo}-^{85}\text{Rb}_{1.153}$	4.1	$^{98}\text{Mo}(n,\gamma)^{99}\text{Mo}$
^{98}Tc	57.3	$^{99}\text{Tc}(p,d)^{98}\text{Tc}$	29.2	$^{97}\text{Mo}(\ ^3\text{He},d)^{98}\text{Tc}$	11.4	$^{98}\text{Mo}(p,n)^{98}\text{Tc}$
^{98}Ru	91.6	$\text{C}_7\text{H}_{14}-^{98}\text{Ru}$	8.4	$^{98}\text{Tc}(\beta^-)^{98}\text{Ru}$		
^{98}Pd	99.6	$^{98}\text{Pd}-^{85}\text{Rb}_{1.153}$	0.4	$^{98}\text{Ag}(\beta^+)^{98}\text{Pd}$		
^{98}Ag	78.0	$^{98}\text{Ag}-^{85}\text{Rb}_{1.153}$	22.0	$^{98}\text{Ag}(\beta^+)^{98}\text{Pd}$		
^{99}Rb	86.7	$^{99}\text{Rb}(\beta^-)^{99}\text{Sr}$	13.3	$^{97}\text{Rb}-^{99}\text{Rb}_{.490}\ ^{95}\text{Rb}_{.511}$		
^{99}Sr	75.5	$^{99}\text{Sr}-^{85}\text{Rb}_{1.165}$	24.5	$^{99}\text{Sr}-^{97}\text{Zr}_{1.021}$		
^{99}Zr	64.3	$^{99}\text{Zr}-^{97}\text{Zr}_{1.021}$	35.7	$^{99}\text{Zr}-u$		
^{99}Mo	95.4	$^{98}\text{Mo}(n,\gamma)^{99}\text{Mo}$	4.6	$^{99}\text{Mo}(\beta^-)^{99}\text{Tc}$		
^{99}Tc	74.8	$^{99}\text{Mo}(\beta^-)^{99}\text{Tc}$	23.5	$^{99}\text{Tc}(\beta^-)^{99}\text{Ru}$	1.7	$^{99}\text{Tc}(p,d)^{98}\text{Tc}$
^{99}Ru	68.9	$^{99}\text{Ru}(n,\gamma)^{100}\text{Ru}$	30.9	$^{99}\text{Tc}(\beta^-)^{99}\text{Ru}$	0.2	$^{99}\text{Rh}(\beta^+)^{99}\text{Ru}$

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
⁹⁹ Rh	89.3	⁹⁹ Rh(β^+) ⁹⁹ Ru	10.7	⁹⁹ Pd(β^+) ⁹⁹ Rh		
⁹⁹ Pd	94.5	⁹⁹ Pd- ⁹⁶ Mo _{1.031}	5.5	⁹⁹ Pd(β^+) ⁹⁹ Rh		
¹⁰⁰ Zr	75.5	¹⁰⁰ Zr- ⁹⁷ Zr _{1.031}	24.5	¹⁰⁰ Zr-u		
¹⁰⁰ Mo	64.6	¹⁰⁰ Mo- ⁸⁵ Rb _{1.176}	35.1	¹⁰⁰ Mo- ¹⁰⁰ Ru	0.2	¹⁰⁰ Mo(t,p) ¹⁰² Mo
¹⁰⁰ Ru	64.3	¹⁰⁰ Mo- ¹⁰⁰ Ru	31.1	⁹⁹ Ru(n, γ) ¹⁰⁰ Ru	4.6	¹⁰⁰ Ru(n, γ) ¹⁰¹ Ru
¹⁰⁰ Rh	82.1	¹⁰⁰ Rh(β^+) ¹⁰⁰ Ru	17.9	¹⁰⁰ Rh-u		
¹⁰⁰ Pd	53.7	¹⁰² Pd(p,t) ¹⁰⁰ Pd	46.3	⁹⁶ Ru(¹⁶ O, ¹² C) ¹⁰⁰ Pd		
¹⁰⁰ Cd	100.0	¹⁰⁰ Cd- ⁸⁵ Rb _{1.176}				
¹⁰⁰ In	63.0	¹⁰⁰ In(β^+) ¹⁰⁰ Cd	37.0	¹⁰⁰ In-u		
¹⁰¹ Zr	79.2	¹⁰¹ Zr- ⁹⁷ Zr _{1.041}	20.8	¹⁰¹ Zr-u		
¹⁰¹ Ru	95.2	¹⁰⁰ Ru(n, γ) ¹⁰¹ Ru	4.8	¹⁰¹ Ru(n, γ) ¹⁰² Ru		
¹⁰¹ Rh	88.4	¹⁰¹ Pd(β^+) ¹⁰¹ Rh	11.6	¹⁰³ Rh(p,t) ¹⁰¹ Rh		
¹⁰¹ Pd	93.2	¹⁰¹ Pd- ⁹⁶ Mo _{1.052}	6.8	¹⁰¹ Pd(β^+) ¹⁰¹ Rh		
¹⁰² Zr	92.0	¹⁰² Zr- ⁹⁷ Zr _{1.052}	8.0	¹⁰² Zr(β^-) ¹⁰² Nb ^m		
¹⁰² Nb	99.4	¹⁰² Nb- ⁹⁷ Zr _{1.052}	0.6	¹⁰² Nb ^m - ¹⁰² Nb		
¹⁰² Nb ^m	94.2	¹⁰² Nb ^m - ¹⁰² Nb	5.8	¹⁰² Zr(β^-) ¹⁰² Nb ^m		
¹⁰² Mo	82.1	¹⁰² Mo- ⁹⁷ Zr _{1.052}	17.9	¹⁰⁰ Mo(t,p) ¹⁰² Mo		
¹⁰² Tc	79.1	¹⁰⁴ Ru(d, α) ¹⁰² Tc	20.9	¹⁰⁰ Mo(³ He,p) ¹⁰² Tc		
¹⁰² Ru	95.1	¹⁰¹ Ru(n, γ) ¹⁰² Ru	4.8	¹⁰² Ru(n, γ) ¹⁰³ Ru		
¹⁰² Rh	50.8	¹⁰² Rh(β^+) ¹⁰² Ru	49.2	¹⁰² Rh(β^-) ¹⁰² Pd		
¹⁰² Pd	91.9	¹⁰² Pd(n, γ) ¹⁰³ Pd	7.6	¹⁰² Rh(β^-) ¹⁰² Pd	0.6	¹⁰² Pd(p,t) ¹⁰⁰ Pd
¹⁰² Cd	88.3	¹⁰² Cd- ⁸⁵ Rb _{1.200}	11.7	¹⁰² Cd- ⁹⁶ Mo _{1.063}		
¹⁰² In	85.6	¹⁰² In- ⁹⁶ Mo _{1.063}	14.4	¹⁰² In- ⁸⁵ Rb _{1.200}		
¹⁰³ Ru	95.1	¹⁰² Ru(n, γ) ¹⁰³ Ru	4.5	¹⁰⁴ Ru(d,t) ¹⁰³ Ru- ¹⁴⁸ Gd() ¹⁴⁷ Gd	0.4	¹⁰³ Ru(β^-) ¹⁰³ Rh
¹⁰³ Rh	91.7	¹⁰³ Ru(β^-) ¹⁰³ Rh	6.6	¹⁰³ Pd(ϵ) ¹⁰³ Rh	1.8	¹⁰³ Rh(p,t) ¹⁰¹ Rh
¹⁰³ Pd	92.6	¹⁰³ Pd(ϵ) ¹⁰³ Rh	7.4	¹⁰² Pd(n, γ) ¹⁰³ Pd		
¹⁰³ Ag	88.1	¹⁰³ Ag- ⁸⁵ Rb _{1.212}	11.9	¹⁰³ Cd(β^+) ¹⁰³ Ag		
¹⁰³ Cd	83.6	¹⁰³ Cd- ⁸⁵ Rb _{1.212}	13.5	¹⁰³ Cd- ⁹⁶ Mo _{1.073}	2.3	¹⁰³ Cd(β^+) ¹⁰³ Ag
¹⁰³ In	79.3	¹⁰³ In- ⁸⁵ Rb _{1.212}	20.7	¹⁰³ In(β^+) ¹⁰³ Cd		
¹⁰⁴ Mo	97.1	¹⁰⁴ Mo- ⁹⁷ Zr _{1.072}	2.9	¹⁰⁴ Mo(β^-) ¹⁰⁴ Tc		
¹⁰⁴ Tc	70.1	¹⁰⁴ Mo(β^-) ¹⁰⁴ Tc	29.9	¹⁰⁴ Tc(β^-) ¹⁰⁴ Ru		
¹⁰⁴ Ru	55.5	¹⁰⁴ Ru(d,t) ¹⁰³ Ru- ¹⁴⁸ Gd() ¹⁴⁷ Gd	32.6	¹⁰⁴ Ru(n, γ) ¹⁰⁵ Ru	10.5	C ₈ H ₈ - ¹⁰⁴ Ru
¹⁰⁴ Cd	89.4	¹⁰⁴ Cd- ⁸⁵ Rb _{1.224}	10.6	¹⁰⁴ Cd- ⁹⁶ Mo _{1.083}		
¹⁰⁴ Sn	92.9	¹⁰⁴ Sn- ⁸⁷ Rb _{1.195}	7.1	¹⁰⁸ Te(α) ¹⁰⁴ Sn		
¹⁰⁵ Mo	98.3	¹⁰⁵ Mo- ⁹⁷ Zr _{1.082}	1.7	¹⁰⁵ Mo(β^-) ¹⁰⁵ Tc		
¹⁰⁵ Tc	58.9	¹⁰⁵ Mo(β^-) ¹⁰⁵ Tc	41.1	¹⁰⁵ Tc(β^-) ¹⁰⁵ Ru		
¹⁰⁵ Ru	67.3	¹⁰⁴ Ru(n, γ) ¹⁰⁵ Ru	26.8	¹⁰⁵ Ru(β^-) ¹⁰⁵ Rh	5.4	¹⁰⁶ Ru- ¹⁰⁵ Ru _{1.010}
¹⁰⁵ Rh	75.1	¹⁰⁵ Rh(β^-) ¹⁰⁵ Pd	24.9	¹⁰⁵ Ru(β^-) ¹⁰⁵ Rh		
¹⁰⁵ Pd	96.1	¹⁰⁵ Pd(n, γ) ¹⁰⁶ Pd	3.8	¹⁰⁵ Rh(β^-) ¹⁰⁵ Pd	0.2	¹⁰⁵ Pd(³ He,d) ¹⁰⁶ Ag
¹⁰⁵ Ag	91.1	¹⁰⁵ Cd(β^+) ¹⁰⁵ Ag	8.9	¹⁰⁷ Ag(p,t) ¹⁰⁵ Ag		
¹⁰⁵ Cd	99.2	¹⁰⁵ Cd- ⁸⁵ Rb _{1.235}	0.8	¹⁰⁵ Cd(β^+) ¹⁰⁵ Ag		
¹⁰⁵ Sn	58.0	¹⁰⁵ Sn- ⁸⁷ Rb _{1.207}	36.1	¹⁰⁵ Sn- ⁸⁵ Rb _{1.235}	6.0	¹⁰⁹ Te(α) ¹⁰⁵ Sn
¹⁰⁶ Ru	63.4	¹⁰⁶ Ru(β^-) ¹⁰⁶ Rh	36.6	¹⁰⁶ Ru- ¹⁰⁵ Ru _{1.010}		
¹⁰⁶ Rh	63.4	¹⁰⁶ Rh(β^-) ¹⁰⁶ Pd	36.6	¹⁰⁶ Ru(β^-) ¹⁰⁶ Rh		
¹⁰⁶ Pd	70.0	¹⁰⁶ Cd- ¹⁰⁶ Pd	20.2	¹⁰⁶ Pd-u	5.2	¹⁰⁶ Pd(n, γ) ¹⁰⁷ Pd
¹⁰⁶ Ag	81.0	¹⁰⁶ Ag(ϵ) ¹⁰⁶ Pd	12.3	¹⁰⁵ Pd(³ He,d) ¹⁰⁶ Ag	6.6	¹⁰⁷ Ag(p,d) ¹⁰⁶ Ag
¹⁰⁶ Cd	43.4	¹⁰⁶ Cd- ⁸⁵ Rb _{1.247}	29.8	¹⁰⁶ Cd- ¹⁰⁶ Pd	26.8	¹⁰⁶ Cd-u
¹⁰⁶ Sn	51.7	¹⁰⁶ Sn- ⁸⁷ Rb _{1.218}	39.5	¹⁰⁶ Sn- ⁸⁵ Rb _{1.247}	8.8	¹¹⁰ Te(α) ¹⁰⁶ Sn
¹⁰⁷ Pd	93.7	¹⁰⁶ Pd(n, γ) ¹⁰⁷ Pd	6.3	¹⁰⁷ Pd(β^-) ¹⁰⁷ Ag		
¹⁰⁷ Ag	53.3	¹⁰⁷ Pd(β^-) ¹⁰⁷ Ag	29.7	¹⁰⁷ Cd(β^+) ¹⁰⁷ Ag	10.9	C ₈ H ₁₁ - ¹⁰⁷ Ag
¹⁰⁷ Cd	88.5	¹⁰⁷ Cd- ⁸⁵ Rb _{1.259}	11.5	¹⁰⁷ Cd(β^+) ¹⁰⁷ Ag		
¹⁰⁷ Sb	58.9	¹⁰⁷ Sb- ⁸⁷ Rb _{1.230}	21.1	¹⁰⁷ Sb- ¹³³ Cs _{.805}	20.0	¹¹¹ I(α) ¹⁰⁷ Sb
¹⁰⁸ Pd	41.0	¹⁰⁸ Pd- ¹⁰⁸ Cd	40.2	¹⁰⁸ Pd-u	18.8	¹⁰⁸ Pd(n, γ) ¹⁰⁹ Pd
¹⁰⁸ Cd	45.6	¹⁰⁸ Pd- ¹⁰⁸ Cd	27.5	¹⁰⁸ Cd- ⁸⁵ Rb _{1.271}	25.1	¹⁰⁸ Cd-u
¹⁰⁸ In	88.6	¹⁰⁸ In(β^+) ¹⁰⁸ Cd	11.4	¹⁰⁸ Sn(β^+) ¹⁰⁸ In		

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
^{108}Sn	95.9	$^{108}\text{Sn}-^{87}\text{Rb}_{1.241}$	4.1	$^{108}\text{Sn}(\beta^+)^{108}\text{In}$		
^{108}Te	93.7	$^{108}\text{Te}-^{87}\text{Rb}_{1.241}$	6.3	$^{108}\text{Te}(\alpha)^{104}\text{Sn}$		
^{109}Rh	64.2	$^{110}\text{Pd}(\text{d},^3\text{He})^{109}\text{Rh}$	35.8	$^{109}\text{Rh}-^{120}\text{Sn}_{.908}$		
^{109}Pd	80.9	$^{108}\text{Pd}(\text{n},\gamma)^{109}\text{Pd}$	19.1	$^{109}\text{Pd}(\beta^-)^{109}\text{Ag}$		
^{109}Ag	55.0	$^{109}\text{Ag}(\text{n},\gamma)^{110}\text{Ag}$	30.8	$^{109}\text{Pd}(\beta^-)^{109}\text{Ag}$	14.2	$^{109}\text{Cd}(\epsilon)^{109}\text{Ag}$
^{109}Cd	75.5	$^{109}\text{Cd}-^{85}\text{Rb}_{1.282}$	21.4	$^{109}\text{Cd}(\epsilon)^{109}\text{Ag}$	3.1	$^{109}\text{In}(\beta^+)^{109}\text{Cd}$
^{109}In	69.1	$^{108}\text{Cd}(^3\text{He},\text{d})^{109}\text{In}-^{110}\text{CdO}^{111}\text{In}$	30.9	$^{109}\text{In}(\beta^+)^{109}\text{Cd}$		
^{109}Sn	77.9	$^{112}\text{Sn}(^3\text{He},^6\text{He})^{109}\text{Sn}$	22.1	$^{109}\text{Sb}(\beta^+)^{109}\text{Sn}$		
^{109}Sb	91.8	$^{109}\text{Sb}-^{87}\text{Rb}_{1.253}$	8.2	$^{109}\text{Sb}(\beta^+)^{109}\text{Sn}$		
^{109}Te	54.0	$^{109}\text{Te}-^{87}\text{Rb}_{1.253}$	32.1	$^{109}\text{Te}-^{133}\text{Cs}_{.820}$	7.4	$^{109}\text{Te}(\alpha)^{105}\text{Sn}$
^{110}Ru	97.2	$^{110}\text{Ru}-^{105}\text{Ru}_{1.048}$	2.8	$^{110}\text{Ru}(\beta^-)^{110}\text{Rh}$		
^{110}Rh	87.7	$^{110}\text{Rh}(\beta^-)^{110}\text{Pd}$	12.3	$^{110}\text{Ru}(\beta^-)^{110}\text{Rh}$		
^{110}Pd	63.3	$^{110}\text{Pd}-^{110}\text{Cd}$	35.9	$^{110}\text{Pd}-\text{u}$	0.6	$^{110}\text{Pd}(\text{d},^3\text{He})^{109}\text{Rh}$
^{110}Ag	55.2	$^{110}\text{Ag}(\beta^-)^{110}\text{Cd}$	44.8	$^{109}\text{Ag}(\text{n},\gamma)^{110}\text{Ag}$		
^{110}Cd	49.8	$^{110}\text{Cd}(\text{n},\gamma)^{111}\text{Cd}$	26.4	$^{110}\text{Cd}-\text{u}$	18.9	$^{110}\text{Pd}-^{110}\text{Cd}$
^{110}Te	84.0	$^{110}\text{Te}-^{133}\text{Cs}_{.827}$	16.0	$^{110}\text{Te}(\alpha)^{106}\text{Sn}$		
^{111}Cd	52.1	$^{111}\text{Cd}(\text{n},\gamma)^{112}\text{Cd}$	47.9	$^{110}\text{Cd}(\text{n},\gamma)^{111}\text{Cd}$		
^{111}In	68.8	$^{113}\text{In}(\text{p},\text{t})^{111}\text{In}-^{112}\text{CdO}^{110}\text{Cd}$	20.2	$^{108}\text{Cd}(^3\text{He},\text{d})^{109}\text{In}-^{110}\text{CdO}^{111}\text{In}$	11.0	$^{113}\text{In}(\text{p},\text{t})^{111}\text{In}-^{115}\text{InO}^{113}\text{In}$
^{111}I	70.0	$^{111}\text{I}-^{87}\text{Rb}_{1.276}$	30.0	$^{111}\text{I}(\alpha)^{107}\text{Sb}$		
^{112}Rh	65.7	$^{112}\text{Rh}(\beta^-)^{112}\text{Pd}$	18.5	$^{112}\text{Rh}-^{120}\text{Sn}_{.933}$	15.8	$^{112}\text{Rh}-\text{u}$
^{112}Pd	88.8	$^{112}\text{Pd}-^{120}\text{Sn}_{.933}$	10.7	$^{110}\text{Pd}(\text{t},\text{p})^{112}\text{Pd}$	0.5	$^{112}\text{Rh}(\beta^-)^{112}\text{Pd}$
^{112}Cd	49.4	$^{112}\text{Cd}(\text{d},\text{p})^{113}\text{Cd}$	40.8	$^{111}\text{Cd}(\text{n},\gamma)^{112}\text{Cd}$	9.4	$^{112}\text{Sn}-^{112}\text{Cd}$
^{112}In	50.0	$^{112}\text{Cd}(\text{p},\text{n})^{112}\text{In}$	50.0	$^{112}\text{In}(\beta^-)^{112}\text{Sn}$		
^{112}Sn	89.8	$^{112}\text{Sn}-^{112}\text{Cd}$	8.1	$^{112}\text{Sn}-^{120}\text{Sn}_{.933}$	2.0	$^{112}\text{Sn}(\text{n},\gamma)^{113}\text{Sn}$
^{113}Ru	78.8	$^{113}\text{Ru}-^{105}\text{Ru}_{1.076}$	21.2	$^{113}\text{Ru}-\text{u}$		
^{113}Cd	79.3	$^{113}\text{Cd}(\text{n},\gamma)^{114}\text{Cd}$	16.3	$^{112}\text{Cd}(\text{d},\text{p})^{113}\text{Cd}$	4.3	$^{113}\text{Cd}(\beta^-)^{113}\text{In}$
^{113}In	72.7	$^{113}\text{Cd}(\beta^-)^{113}\text{In}$	22.5	$^{113}\text{In}(\text{n},\gamma)^{114}\text{In}$	3.1	$^{113}\text{Sn}(\beta^+)^{113}\text{In}$
^{113}Sn	69.9	$^{112}\text{Sn}(\text{n},\gamma)^{113}\text{Sn}$	16.4	$^{113}\text{Sn}(\beta^+)^{113}\text{In}$	13.6	$^{114}\text{Sn}(\text{d},\text{t})^{113}\text{Sn}$
^{113}Xe	82.2	$^{113}\text{Xe}-^{133}\text{Cs}_{.850}$	17.8	$^{113}\text{Xe}(\alpha)^{109}\text{Te}$		
^{114}Rh	59.0	$^{114}\text{Rh}-^{120}\text{Sn}_{.950}$	41.0	$^{114}\text{Rh}-\text{u}$		
^{114}Cd	81.1	$^{116}\text{Cd}^{35}\text{Cl}-^{114}\text{Cd}^{37}\text{Cl}$	18.9	$^{113}\text{Cd}(\text{n},\gamma)^{114}\text{Cd}$		
^{114}In	75.7	$^{113}\text{In}(\text{n},\gamma)^{114}\text{In}$	24.3	$^{114}\text{In}(\beta^-)^{114}\text{Sn}$		
^{114}Sn	64.5	$^{114}\text{In}(\beta^-)^{114}\text{Sn}$	31.7	$^{114}\text{Sn}(\text{n},\gamma)^{115}\text{Sn}$	3.7	$^{114}\text{Sn}(\text{d},\text{t})^{113}\text{Sn}$
^{114}Sb	61.1	$^{114}\text{Sb}-\text{u}$	38.9	$^{114}\text{Sn}(\text{p},\text{n})^{114}\text{Sb}$		
^{115}Ru	56.2	$^{115}\text{Ru}-^{120}\text{Sn}_{.958}$	43.8	$^{115}\text{Ru}(\beta^-)^{115}\text{Rh}$		
^{115}Rh	99.7	$^{115}\text{Rh}-^{120}\text{Sn}_{.958}$	0.3	$^{115}\text{Ru}(\beta^-)^{115}\text{Rh}$		
^{115}Pd	93.6	$^{115}\text{Pd}-^{120}\text{Sn}_{.958}$	6.4	$^{115}\text{Pd}(\beta^-)^{115}\text{Ag}$		
^{115}Ag	66.8	$^{115}\text{Ag}-^{133}\text{Cs}_{.865}$	20.9	$^{115}\text{Ag}(\beta^-)^{115}\text{Cd}$	12.4	$^{115}\text{Pd}(\beta^-)^{115}\text{Ag}$
^{115}Cd	100.0	$^{114}\text{Cd}(\text{d},\text{p})^{115}\text{Cd}$				
^{115}In	100.0	$^{115}\text{In}-^{129}\text{Xe}$				
^{115}Sn	100.0	$^{115}\text{In}-^{115}\text{Sn}$				
^{116}Rh	57.6	$^{116}\text{Rh}-^{120}\text{Sn}_{.967}$	42.4	$^{116}\text{Rh}-\text{u}$		
^{116}Cd	97.5	$^{116}\text{Cd}-^{116}\text{Sn}$	2.5	$^{116}\text{Cd}^{35}\text{Cl}-^{114}\text{Cd}^{37}\text{Cl}$		
^{116}Sn	99.0	$^{115}\text{Sn}(\text{n},\gamma)^{116}\text{Sn}$	0.9	$^{116}\text{Cd}-^{116}\text{Sn}$	0.1	$^{116}\text{Sn}(\text{n},\gamma)^{117}\text{Sn}$
^{116}Sb	75.5	$^{116}\text{Sn}(\text{p},\text{n})^{116}\text{Sb}$	24.5	$^{115}\text{Sn}(^3\text{He},\text{d})^{116}\text{Sb}-^{120}\text{SnO}^{121}\text{Sb}$		
^{117}Pd	95.8	$^{117}\text{Pd}-^{120}\text{Sn}_{.975}$	4.2	$^{117}\text{Pd}(\beta^-)^{117}\text{Ag}$		
^{117}Ag	82.9	$^{117}\text{Ag}-^{133}\text{Cs}_{.880}$	17.1	$^{117}\text{Pd}(\beta^-)^{117}\text{Ag}$		
^{117}In	94.3	$^{117}\text{In}(\beta^-)^{117}\text{Sn}$	5.7	$^{120}\text{Sn}(\text{t},\alpha)^{119}\text{In}-^{118}\text{SnO}^{117}\text{In}$		
^{117}Sn	96.9	$^{116}\text{Sn}(\text{n},\gamma)^{117}\text{Sn}$	3.1	$^{117}\text{Sn}(\text{n},\gamma)^{118}\text{Sn}$		
^{117}Sb	71.2	$^{116}\text{Sn}(^3\text{He},\text{d})^{117}\text{Sb}$	17.8	$^{117}\text{Sn}(\text{p},\text{n})^{117}\text{Sb}$	11.0	$^{117}\text{Te}(\beta^+)^{117}\text{Sb}$
^{117}Te	50.7	$^{117}\text{Te}(\beta^+)^{117}\text{Sb}$	46.4	$^{117}\text{Te}-\text{u}$	2.9	$^{117}\text{I}(\beta^+)^{117}\text{Te}$
^{117}I	87.9	$^{117}\text{I}-\text{u}$	12.1	$^{117}\text{I}(\beta^+)^{117}\text{Te}$		
^{118}Pd	61.3	$^{118}\text{Pd}-^{120}\text{Sn}_{.983}$	38.7	$^{118}\text{Pd}-^{129}\text{Xe}_{.915}$		
^{118}In	100.0	$^{119}\text{Sn}(\text{t},\alpha)^{118}\text{In}-^{118}\text{SnO}^{117}\text{In}$				
^{118}Sn	96.7	$^{117}\text{Sn}(\text{n},\gamma)^{118}\text{Sn}$	3.3	$^{118}\text{Sn}(\text{n},\gamma)^{119}\text{Sn}$		

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
¹¹⁹ Ag	97.3	¹¹⁹ Ag- ¹³³ Cs ₈₉₅	2.7	¹¹⁹ Ag(β^-) ¹¹⁹ Cd		
¹¹⁹ Cd	78.0	¹¹⁹ Ag(β^-) ¹¹⁹ Cd	22.0	¹¹⁹ Cd(β^-) ¹¹⁹ In		
¹¹⁹ In	86.2	¹²⁰ Sn(t, α) ¹¹⁹ In- ¹¹⁸ Sn() ¹¹⁷ In	13.1	¹²⁰ Sn(d, ³ He) ¹¹⁹ In	0.6	¹¹⁹ Cd(β^-) ¹¹⁹ In
¹¹⁹ Sn	92.6	¹¹⁸ Sn(n, γ) ¹¹⁹ Sn	7.3	¹²⁰ Sn(d,t) ¹¹⁹ Sn	0.1	¹¹⁹ Sb(ϵ) ¹¹⁹ Sn
¹¹⁹ Sb	59.1	¹¹⁸ Sn(³ He,d) ¹¹⁹ Sb	40.9	¹¹⁹ Sb(ϵ) ¹¹⁹ Sn		
¹²⁰ Pd	68.7	¹²⁰ Pd- ¹²⁰ Sn	31.3	¹²⁰ Pd- ¹²⁹ Xe ₉₃₀		
¹²⁰ Sn	21.6	¹¹⁵ Sn- ¹²⁰ Sn ₉₅₈	20.3	¹¹² Sn- ¹²⁰ Sn ₉₃₃	18.9	¹²⁹ Xe- ¹²⁰ Sn _{1,075}
¹²⁰ Te	82.1	¹²² Te(p,t) ¹²⁰ Te- ¹³² Ba() ¹³⁰ Ba	17.7	¹²² Te(p,t) ¹²⁰ Te- ¹⁴⁴ Sm() ¹⁴² Sm	0.2	¹²⁰ Te(³ He,d) ¹²¹ I
¹²¹ Sn	96.7	¹²² Sn(n, γ) ¹²¹ Sn	3.3	¹²² Sn(d,t) ¹²¹ Sn		
¹²¹ Sb	94.2	¹²¹ Sb(n, γ) ¹²² Sb	5.7	¹¹⁵ Sn(³ He,d) ¹¹⁶ Sb- ¹²⁰ Sn() ¹²¹ Sb	0.2	¹²¹ Te(β^+) ¹²¹ Sb
¹²¹ Te	73.6	¹²¹ Te(β^+) ¹²¹ Sb	26.4	¹²¹ I(β^+) ¹²¹ Te		
¹²¹ I	99.2	¹²⁰ Te(³ He,d) ¹²¹ I	0.8	¹²¹ I(β^+) ¹²¹ Te		
¹²¹ Xe	85.0	¹²¹ Xe- ¹³³ Cs ₉₁₀	15.0	¹²¹ Cs(β^+) ¹²¹ Xe		
¹²¹ Cs	46.0	¹²¹ Cs(β^+) ¹²¹ Xe	37.7	¹²¹ Cs- ¹³³ Cs ₉₁₀	16.3	¹²¹ Cs-u
¹²² Cd	72.4	¹²² Cd- ¹³⁰ Xe ₉₃₈	27.6	¹²² Cd- ¹³³ Cs ₉₁₇		
¹²² Sn	57.0	¹²² Sn(d,t) ¹²¹ Sn	43.0	¹²² Sn(n, γ) ¹²³ Sn		
¹²² Sb	63.2	¹²² Sb(β^-) ¹²² Te	30.9	¹²³ Sb(γ ,n) ¹²² Sb	5.8	¹²¹ Sb(n, γ) ¹²² Sb
¹²² Te	98.0	¹²² Te(n, γ) ¹²³ Te	1.4	¹²² Sb(β^-) ¹²² Te	0.6	¹²² Te(³ He,d) ¹²³ I
¹²² Cs	56.8	¹²² Cs- ¹³³ Cs ₉₁₇	43.2	¹²² Cs-u		
¹²³ Cd	99.6	¹²³ Cd- ¹³⁰ Xe ₉₄₆	0.4	¹²³ Cd(β^-) ¹²³ In		
¹²³ In	43.4	¹²³ In(β^-) ¹²³ Sn	31.9	¹²³ Cd(β^-) ¹²³ In	24.7	¹²⁴ Sn(d, ³ He) ¹²³ In
¹²³ Sn	50.7	¹²² Sn(n, γ) ¹²³ Sn	38.7	¹²⁴ Sn(d,t) ¹²³ Sn	10.2	¹²³ Sn(β^-) ¹²³ Sb
¹²³ Sb	82.4	¹²³ Sb(n, γ) ¹²⁴ Sb	10.1	¹²³ Sb(γ ,n) ¹²² Sb	7.5	¹²³ Sn(β^-) ¹²³ Sb
¹²³ Te	98.0	¹²³ Te(n, γ) ¹²⁴ Te	2.0	¹²² Te(n, γ) ¹²³ Te		
¹²³ I	96.2	¹²² Te(³ He,d) ¹²³ I	3.8	¹²³ Xe(β^+) ¹²³ I		
¹²³ Xe	62.0	¹²³ Xe- ¹³³ Cs ₉₂₅	38.0	¹²³ Xe(β^+) ¹²³ I		
¹²⁴ Cd	89.4	¹²⁴ Cd- ¹³⁰ Xe ₉₅₄	10.3	¹²⁴ Cd- ¹³³ Cs ₉₃₂	0.2	¹²⁴ Cd(β^-) ¹²⁴ In
¹²⁴ In	61.1	¹²⁴ Cd(β^-) ¹²⁴ In	38.9	¹²⁴ In(β^-) ¹²⁴ Sn		
¹²⁴ Sn	37.3	¹²⁴ Sn- ¹³ C ³⁷ Cl ₃	26.9	¹²⁴ Sn- ¹²⁹ Xe ₉₆₁	20.3	¹²⁴ Sn- ¹²⁰ Sn _{1,033}
¹²⁴ Sb	82.4	¹²⁴ Sb(β^-) ¹²⁴ Te	17.6	¹²³ Sb(n, γ) ¹²⁴ Sb		
¹²⁴ Te	40.9	¹²⁴ Sn- ¹²⁴ Te	26.2	¹²⁴ Te- ¹³ C ³⁷ Cl ₃	16.9	¹²⁴ Te(n, γ) ¹²⁵ Te
¹²⁴ Xe	58.4	¹²⁴ Xe- ⁵⁴ Fe ³⁵ Cl ₂	24.0	¹²⁴ Xe- ¹³ C ³⁷ Cl ₃	16.5	¹²⁴ Xe- ¹²⁴ Te
¹²⁵ Cd	99.8	¹²⁵ Cd- ¹³⁰ Xe ₉₆₂	0.2	¹²⁵ Cd(β^-) ¹²⁵ In		
¹²⁵ In	81.0	¹²⁵ In(β^-) ¹²⁵ Sn	19.0	¹²⁵ Cd(β^-) ¹²⁵ In		
¹²⁵ Sn	100.0	¹²⁴ Sn(n, γ) ¹²⁵ Sn				
¹²⁵ Te	83.1	¹²⁴ Te(n, γ) ¹²⁵ Te	16.9	¹²⁵ Te(n, γ) ¹²⁶ Te		
¹²⁵ Xe	98.8	¹²⁴ Xe(n, γ) ¹²⁵ Xe	1.2	¹²⁵ Cs(β^+) ¹²⁵ Xe		
¹²⁵ Cs	70.5	¹²⁵ Cs- ¹³³ Cs ₉₄₀	29.5	¹²⁵ Cs(β^+) ¹²⁵ Xe		
¹²⁵ Ba	97.9	¹²⁵ Ba- ¹³³ Cs ₉₄₀	2.1	¹²⁵ La(β^+) ¹²⁵ Ba		
¹²⁵ La	86.5	¹²⁵ La-u	13.5	¹²⁵ La(β^+) ¹²⁵ Ba		
¹²⁶ Cd	64.9	¹²⁶ Cd- ¹³⁰ Xe ₉₆₉	34.9	¹²⁶ Cd- ¹³³ Cs ₉₄₇	0.2	¹²⁶ Cd(β^-) ¹²⁶ In
¹²⁶ In	55.7	¹²⁶ Cd(β^-) ¹²⁶ In	44.3	¹²⁶ In(β^-) ¹²⁶ Sn		
¹²⁶ Sn	96.1	¹²⁴ Sn(t,p) ¹²⁶ Sn	3.9	¹²⁶ In(β^-) ¹²⁶ Sn		
¹²⁶ Te	83.1	¹²⁵ Te(n, γ) ¹²⁶ Te	12.3	¹²⁸ Te ³⁵ Cl- ¹²⁶ Te ³⁷ Cl	2.5	¹²⁶ I(β^+) ¹²⁶ Te
¹²⁶ I	51.5	¹²⁶ I(β^+) ¹²⁶ Te	48.5	¹²⁷ I(γ ,n) ¹²⁶ I		
¹²⁶ Xe	97.6	¹²⁶ Xe- ¹³⁴ Xe ₉₄₀	2.4	¹²⁶ Cs(β^+) ¹²⁶ Xe		
¹²⁶ Cs	73.8	¹²⁶ Cs- ¹³³ Cs ₉₄₇	26.2	¹²⁶ Cs(β^+) ¹²⁶ Xe		
¹²⁷ Cd	96.3	¹²⁷ Cd- ¹³⁰ Xe ₉₇₇	3.7	¹²⁷ Cd(β^-) ¹²⁷ In		
¹²⁷ In	89.2	¹²⁷ In(β^-) ¹²⁷ Sn	10.8	¹²⁷ Cd(β^-) ¹²⁷ In		
¹²⁷ Sn	81.0	¹²⁷ Sn ³⁴ S- ¹³³ Cs _{1,211}	16.8	¹²⁷ Sn(β^-) ¹²⁷ Sb	2.2	¹²⁷ In(β^-) ¹²⁷ Sn
¹²⁷ Sb	96.2	¹²⁷ Sb(β^-) ¹²⁷ Te	3.8	¹²⁷ Sn(β^-) ¹²⁷ Sb		
¹²⁷ Te	97.9	¹²⁶ Te(n, γ) ¹²⁷ Te	1.8	¹²⁷ Te(β^-) ¹²⁷ I	0.3	¹²⁷ Sb(β^-) ¹²⁷ Te
¹²⁷ I	35.0	¹²⁷ I(γ ,n) ¹²⁶ I	23.8	¹²⁷ Te(β^-) ¹²⁷ I	21.2	¹²⁷ C ₁₀ H ₇ - ¹²⁷ I
¹²⁷ Xe	91.1	¹²⁷ Xe(ϵ) ¹²⁷ I	8.9	¹²⁷ Cs(β^+) ¹²⁷ Xe		
¹²⁷ Cs	81.7	¹²⁷ Cs- ¹³³ Cs ₉₅₅	18.3	¹²⁷ Cs(β^+) ¹²⁷ Xe		

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
^{127}Ba	97.7	$^{127}\text{Ba}-^{133}\text{Cs}_{.955}$	2.3	$^{127}\text{La}(\beta^+)^{127}\text{Ba}$		
^{127}La	86.6	$^{127}\text{La-u}$	13.4	$^{127}\text{La}(\beta^+)^{127}\text{Ba}$		
^{128}Cd	50.0	$^{128}\text{Cd}-^{133}\text{Cs}_{.962}$	50.0	$^{128}\text{Cd}-^{130}\text{Xe}_{.985}$		
^{128}In	72.0	$^{128}\text{In}(\beta^-)^{128}\text{Sn}$	28.0	$^{128}\text{Cd}(\beta^-)^{128}\text{In}$		
^{128}Sn	57.5	$^{128}\text{Sn-u}$	42.2	$^{128}\text{Sn}(\beta^-)^{128}\text{Sb}^m$	0.3	$^{128}\text{In}(\beta^-)^{128}\text{Sn}$
$^{128}\text{Sb}^m$	54.9	$^{128}\text{Sb}^m(\beta^-)^{128}\text{Te}$	45.1	$^{128}\text{Sn}(\beta^-)^{128}\text{Sb}^m$		
^{128}Te	73.8	$^{130}\text{Te } ^{35}\text{Cl}-^{128}\text{Te } ^{37}\text{Cl}$	20.7	$^{128}\text{Te}-^{128}\text{Xe}$	3.7	$^{128}\text{Te } ^{35}\text{Cl}-^{126}\text{Te } ^{37}\text{Cl}$
^{128}I	86.9	$^{127}\text{I}(\text{n},\gamma)^{128}\text{I}$	13.1	$^{128}\text{I}(\beta^-)^{128}\text{Xe}$		
^{128}Xe	56.1	$^{128}\text{Te}-^{128}\text{Xe}$	42.3	$\text{C}_{10} \text{H}_8-^{128}\text{Xe}$	0.9	$^{128}\text{I}(\beta^-)^{128}\text{Xe}$
^{128}Cs	79.8	$^{128}\text{Cs}(\beta^+)^{128}\text{Xe}$	20.2	$^{128}\text{Cs}-^{133}\text{Cs}_{.962}$		
^{128}Ba	77.7	$^{130}\text{Ba}(\text{p,t})^{128}\text{Ba}-^{144}\text{Sm}()^{142}\text{Sm}$	22.3	$^{128}\text{Ba}-^{133}\text{Cs}_{.962}$		
^{129}In	99.5	$^{129}\text{In}-^{130}\text{Xe}_{.992}$	0.5	$^{129}\text{In}(\beta^-)^{129}\text{Sn}$		
^{129}Sn	55.0	$^{129}\text{In}(\beta^-)^{129}\text{Sn}$	45.0	$^{129}\text{Sn-u}$		
^{129}Te	98.2	$^{128}\text{Te}(\text{n},\gamma)^{129}\text{Te}$	1.8	$^{129}\text{Te}(\beta^-)^{129}\text{I}$		
^{129}I	59.9	$^{129}\text{Te}(\beta^-)^{129}\text{I}$	40.1	$^{129}\text{I}(\beta^-)^{129}\text{Xe}$		
^{129}Xe	40.5	$^{132}\text{Xe}-^{129}\text{Xe}$	16.2	$\text{C}_{10} \text{H}_{10}-^{129}\text{Xe}$	15.2	$^{129}\text{Xe}_2-^{86}\text{Kr}_3$
^{129}Cs	83.0	$^{129}\text{Cs}(\beta^+)^{129}\text{Xe}$	12.2	$^{129}\text{Cs}-^{133}\text{Cs}_{.970}$	4.8	$^{129}\text{Ba}(\beta^+)^{129}\text{Cs}$
^{129}Ba	48.3	$^{130}\text{Ba}(\text{d,t})^{129}\text{Ba}$	45.3	$^{129}\text{Ba}(\beta^+)^{129}\text{Cs}$	6.4	$^{129}\text{La}(\beta^+)^{129}\text{Ba}$
^{129}La	58.4	$^{129}\text{La-u}$	41.6	$^{129}\text{La}(\beta^+)^{129}\text{Ba}$		
^{130}Sn	94.4	$^{130}\text{Sn}-^{130}\text{Xe}$	5.4	$^{130}\text{Sn}-^{133}\text{Cs}_{.977}$	0.2	$^{130}\text{Sn}(\beta^-)^{130}\text{Sb}$
^{130}Sb	90.0	$^{130}\text{Sn}(\beta^-)^{130}\text{Sb}$	10.0	$^{130}\text{Sb}(\beta^-)^{130}\text{Te}$		
^{130}Te	77.3	$^{130}\text{Te}-^{129}\text{Xe}$	22.7	$^{130}\text{Te}-^{130}\text{Xe}$		
^{130}Xe	49.1	$^{130}\text{Xe}-^{129}\text{Xe}$	38.5	$^{132}\text{Xe}-^{130}\text{Xe}$	12.4	$^{130}\text{Te}-^{130}\text{Xe}$
^{130}Cs	47.6	$^{130}\text{Cs}-^{133}\text{Cs}_{.977}$	34.9	$^{130}\text{Cs}(\beta^+)^{130}\text{Xe}$	17.5	$^{129}\text{Xe}(\text{}^3\text{He,d})^{130}\text{Cs}$
^{130}Ba	66.2	$^{130}\text{Ba}-^{85}\text{Rb}_{1.529}$	16.4	$^{122}\text{Te}(\text{p,t})^{120}\text{Te}-^{132}\text{Ba}()^{130}\text{Ba}$	10.5	$^{130}\text{Ba}(\text{p,t})^{128}\text{Ba}-^{144}\text{Sm}()^{142}\text{Sm}$
^{131}In	98.0	$^{131}\text{In}-^{130}\text{Xe}_{1.008}$	2.0	$^{131}\text{In}(\beta^-)^{131}\text{Sn}$		
^{131}Sn	53.8	$^{131}\text{Sn}(\beta^-)^{131}\text{Sb}$	35.1	$^{131}\text{Sn } ^{34}\text{S}-^{133}\text{Cs}_{1.241}$	11.1	$^{131}\text{In}(\beta^-)^{131}\text{Sn}$
^{131}Sb	96.9	$^{131}\text{Sb}-^{130}\text{Xe}_{1.008}$	3.1	$^{131}\text{Sn}(\beta^-)^{131}\text{Sb}$		
^{131}Xe	100.0	$^{131}\text{Xe}(\text{n},\gamma)^{132}\text{Xe}$				
^{131}Cs	60.5	$^{131}\text{Cs}(\epsilon)^{131}\text{Xe}$	25.0	$^{131}\text{Ba}(\beta^+)^{131}\text{Cs}$	14.6	$^{131}\text{Cs}-^{133}\text{Cs}_{.985}$
^{131}Ba	94.6	$^{130}\text{Ba}(\text{n},\gamma)^{131}\text{Ba}$	5.4	$^{131}\text{Ba}(\beta^+)^{131}\text{Cs}$		
^{131}Ce	95.7	$^{131}\text{Ce-u}$	4.3	$^{131}\text{Pr}(\beta^+)^{131}\text{Ce}$		
^{131}Pr	81.2	$^{131}\text{Pr-u}$	9.5	$^{131}\text{Nd}(\beta^+)^{131}\text{Pr}$	9.3	$^{131}\text{Pr}(\beta^+)^{131}\text{Ce}$
^{131}Nd	97.0	$^{131}\text{Nd-u}$	3.0	$^{131}\text{Nd}(\beta^+)^{131}\text{Pr}$		
^{132}Sn	83.7	$^{132}\text{Sn}-^{132}\text{Xe}$	16.3	$^{132}\text{Sn } ^{34}\text{S}-^{133}\text{Cs}_{1.248}$		
^{132}Te	75.8	$^{132}\text{Te}-^{130}\text{Xe}_{1.015}$	24.2	$^{132}\text{Te}(\beta^-)^{132}\text{I}$		
^{132}I	51.6	$^{132}\text{Te}(\beta^-)^{132}\text{I}$	48.4	$^{132}\text{I}(\beta^-)^{132}\text{Xe}$		
^{132}Xe	34.1	$^{132}\text{Xe}-\text{C}_{10} \text{H}_{10}$	26.3	$^{132}\text{Xe}-^{129}\text{Xe}$	15.7	$^{132}\text{Xe}-\text{C}_3 \text{O}_6$
^{132}Ba	98.5	$^{132}\text{Ba}(\text{n},\gamma)^{133}\text{Ba}$	1.4	$^{122}\text{Te}(\text{p,t})^{120}\text{Te}-^{132}\text{Ba}()^{130}\text{Ba}$		
^{132}La	66.1	$^{132}\text{La}(\beta^+)^{132}\text{Ba}$	33.9	$^{132}\text{La-u}$		
^{132}Ce	53.6	$^{132}\text{Ce-u}$	46.4	$^{132}\text{Ce O}-^{142}\text{Sm}_{1.042}$		
^{133}Sb	72.9	$^{133}\text{Sb}-^{130}\text{Xe}_{1.023}$	15.4	$^{133}\text{Sb}(\beta^-)^{133}\text{Te}$	11.7	$^{133}\text{Sb}-^{136}\text{Xe}_{.978}$
^{133}Te	78.7	$^{133}\text{Te}-^{130}\text{Xe}_{1.023}$	21.3	$^{133}\text{Sb}(\beta^-)^{133}\text{Te}$		
^{133}Cs	45.5	$^{133}\text{Cs}-^{132}\text{Xe}$	43.7	$^{133}\text{Cs}-^{129}\text{Xe}$	10.8	$^{133}\text{Cs}-\text{C}_3 \text{O}_6$
^{133}Ba	98.7	$^{133}\text{Ba}(\epsilon)^{133}\text{Cs}$	1.3	$^{132}\text{Ba}(\text{n},\gamma)^{133}\text{Ba}$		
^{134}Te	72.3	$^{134}\text{Te}-^{130}\text{Xe}_{1.031}$	21.0	$^{134}\text{Te}-^{136}\text{Xe}_{.985}$	6.8	$^{134}\text{Te}(\beta^-)^{134}\text{I}$
^{134}I	53.1	$^{134}\text{Te}(\beta^-)^{134}\text{I}$	46.9	$^{134}\text{I}(\beta^-)^{134}\text{Xe}$		
^{134}Xe	99.3	$^{134}\text{Xe}-\text{C } ^{13}\text{C } ^{35}\text{Cl } ^{37}\text{Cl}_2$	0.6	$^{134}\text{I}(\beta^-)^{134}\text{Xe}$	0.1	$^{126}\text{Xe}-^{134}\text{Xe}_{.940}$
^{134}Cs	99.9	$^{133}\text{Cs}(\text{n},\gamma)^{134}\text{Cs}$	0.1	$^{134}\text{Cs}(\beta^-)^{134}\text{Ba}$		
^{134}Ba	52.5	$^{134}\text{Ba}(\text{n},\gamma)^{135}\text{Ba}$	47.5	$^{134}\text{Cs}(\beta^-)^{134}\text{Ba}$		
^{135}I	51.2	$^{135}\text{I}(\beta^-)^{135}\text{Xe}$	48.8	$^{135}\text{I}-^{136}\text{Xe}_{.993}$		
^{135}Xe	82.0	$^{135}\text{Xe}(\beta^-)^{135}\text{Cs}$	18.0	$^{135}\text{I}(\beta^-)^{135}\text{Xe}$		
^{135}Cs	99.1	$^{134}\text{Cs}(\text{n},\gamma)^{135}\text{Cs}$	0.9	$^{135}\text{Xe}(\beta^-)^{135}\text{Cs}$		
^{135}Ba	55.9	$^{135}\text{Ba}(\text{n},\gamma)^{136}\text{Ba}$	44.1	$^{134}\text{Ba}(\text{n},\gamma)^{135}\text{Ba}$		
^{135}La	88.9	$^{135}\text{La}(\beta^+)^{135}\text{Ba}$	11.1	$^{135}\text{Ce}(\beta^+)^{135}\text{La}$		

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
¹³⁵ Ce	86.5	¹³⁵ Ce(β^+) ¹³⁵ La	13.5	¹³⁵ Ce-u		
¹³⁶ Te	71.7	¹³⁶ Te- ¹³⁰ Xe _{1.046}	27.6	¹³⁶ Te- ¹³⁶ Xe	0.7	¹³⁶ Te(β^-) ¹³⁶ I
¹³⁶ I	50.4	¹³⁶ I(β^-) ¹³⁶ Xe	49.6	¹³⁶ Te(β^-) ¹³⁶ I		
¹³⁶ Xe	100.0	¹³⁶ Xe-u				
¹³⁶ Ba	56.0	¹³⁶ Xe- ¹³⁶ Ba	43.6	¹³⁵ Ba(n, γ) ¹³⁶ Ba	0.4	¹³⁶ Ba(n, γ) ¹³⁷ Ba
¹³⁶ Ce	99.9	¹³⁶ Ce- ¹³⁶ Ba	0.1	¹³⁶ Ce(n, γ) ¹³⁷ Ce		
¹³⁶ Pr	67.2	¹³⁶ Pr- ¹³³ Cs _{1.023}	32.8	¹³⁶ Pr(β^+) ¹³⁶ Ce		
¹³⁷ Ba	99.6	¹³⁶ Ba(n, γ) ¹³⁷ Ba	0.4	¹³⁷ Ba(n, γ) ¹³⁸ Ba		
¹³⁷ Ce	99.9	¹³⁶ Ce(n, γ) ¹³⁷ Ce	0.1	¹³⁷ Pr(β^+) ¹³⁷ Ce		
¹³⁷ Pr	66.1	¹³⁷ Pr(β^+) ¹³⁷ Ce	33.9	¹³⁷ Pr- ¹³³ Cs _{1.030}		
¹³⁷ Nd	81.0	¹³⁷ Nd- ¹³³ Cs _{1.030}	17.6	¹³⁷ Nd-u	1.4	¹³⁷ Pm ^m (β^+) ¹³⁷ Nd
¹³⁷ Pm ^m	69.9	¹³⁷ Pm ^m (β^+) ¹³⁷ Nd	30.1	¹³⁷ Sm(β^+) ¹³⁷ Pm ^m		
¹³⁷ Sm	43.5	¹³⁷ Sm-u	34.0	¹³⁷ Sm- ¹³³ Cs _{1.030}	22.4	¹³⁷ Sm(β^+) ¹³⁷ Pm ^m
¹³⁸ Xe	74.0	¹³⁸ Xe- ¹³³ Cs _{1.038}	26.0	¹³⁸ Xe- ¹³⁶ Xe _{1.015}		
¹³⁸ Cs	50.7	¹³⁸ Cs(β^-) ¹³⁸ Ba	49.3	¹³⁸ Cs- ¹³³ Cs _{1.038}		
¹³⁸ Ba	99.6	¹³⁷ Ba(n, γ) ¹³⁸ Ba	0.4	¹³⁸ Ba(n, γ) ¹³⁹ Ba		
¹³⁸ Ce	64.8	¹³⁸ Ce(t,p) ¹⁴⁰ Ce	26.9	¹⁴⁰ Ce- ¹³⁸ Ce	8.3	¹³⁸ Pr ^m (β^+) ¹³⁸ Ce
¹³⁸ Pr ^m	60.7	¹³⁸ Pr ^m (β^+) ¹³⁸ Ce	39.3	¹³⁸ Pr ^m -u		
¹³⁸ Nd	96.4	¹³⁸ Nd- ¹³³ Cs _{1.038}	3.6	¹³⁸ Pm(β^+) ¹³⁸ Nd		
¹³⁸ Pm	72.4	¹³⁸ Pm-u	27.6	¹³⁸ Pm(β^+) ¹³⁸ Nd		
¹³⁹ Ba	99.6	¹³⁸ Ba(n, γ) ¹³⁹ Ba	0.4	¹³⁹ Ba(β^-) ¹³⁹ La		
¹³⁹ La	52.4	¹³⁹ Ba(β^-) ¹³⁹ La	47.4	¹³⁹ La(n, γ) ¹⁴⁰ La	0.1	¹³⁹ Ce(ϵ) ¹³⁹ La
¹³⁹ Ce	98.5	¹³⁹ Ce(ϵ) ¹³⁹ La	1.5	¹³⁹ Pr(β^+) ¹³⁹ Ce		
¹³⁹ Pr	98.3	¹³⁹ Pr(β^+) ¹³⁹ Ce	1.7	¹³⁹ Nd(β^+) ¹³⁹ Pr		
¹³⁹ Nd	70.3	¹³⁹ Pm(β^+) ¹³⁹ Nd	29.7	¹³⁹ Nd(β^+) ¹³⁹ Pr		
¹³⁹ Pm	94.6	¹³⁹ Pm- ¹³³ Cs _{1.045}	5.4	¹³⁹ Pm(β^+) ¹³⁹ Nd		
¹⁴⁰ Cs	79.1	¹⁴⁰ Cs- ¹³³ Cs _{1.053}	20.9	¹⁴⁰ Cs(β^-) ¹⁴⁰ Ba		
¹⁴⁰ Ba	37.4	¹⁴⁰ Ba(β^-) ¹⁴⁰ La	37.1	¹⁴⁰ Ba- ¹³³ Cs _{1.053}	19.2	¹⁴⁰ Cs(β^-) ¹⁴⁰ Ba
¹⁴⁰ La	52.6	¹³⁹ La(n, γ) ¹⁴⁰ La	45.5	¹⁴⁰ La(β^-) ¹⁴⁰ Ce	1.9	¹⁴⁰ Ba(β^-) ¹⁴⁰ La
¹⁴⁰ Ce	54.5	¹⁴⁰ Ce(n, γ) ¹⁴¹ Ce	35.3	¹⁴⁰ La(β^-) ¹⁴⁰ Ce	6.5	¹⁴⁰ Ce(t,p) ¹⁴² Ce
¹⁴⁰ Nd	86.7	¹⁴⁰ Nd-u	13.3	¹⁴⁰ Pm ^m (β^+) ¹⁴⁰ Nd		
¹⁴⁰ Pm ^m	75.6	¹⁴⁰ Pm ^m - ¹³³ Cs _{1.053}	21.5	¹⁴⁰ Pm ^m -u	3.0	¹⁴⁰ Pm ^m (β^+) ¹⁴⁰ Nd
¹⁴¹ Cs	37.4	¹⁴¹ Cs- ¹³³ Cs _{1.060}	32.5	¹⁴¹ Cs(β^-) ¹⁴¹ Ba	19.8	¹⁴¹ Cs- ¹³⁶ Xe _{1.037}
¹⁴¹ Ba	57.9	¹⁴¹ Ba-u	27.2	¹⁴¹ Ba- ¹³³ Cs _{1.060}	8.1	¹⁴¹ Cs(β^-) ¹⁴¹ Ba
¹⁴¹ La	95.4	¹⁴¹ La(β^-) ¹⁴¹ Ce	4.6	¹⁴¹ Ba(β^-) ¹⁴¹ La		
¹⁴¹ Ce	53.5	¹⁴¹ Ce(β^-) ¹⁴¹ Pr	45.4	¹⁴⁰ Ce(n, γ) ¹⁴¹ Ce	1.1	¹⁴¹ La(β^-) ¹⁴¹ Ce
¹⁴¹ Pr	62.4	¹⁴¹ Pr(n, γ) ¹⁴² Pr	37.6	¹⁴¹ Ce(β^-) ¹⁴¹ Pr		
¹⁴¹ Sm	49.6	¹⁴⁴ Sm(³ He, ⁶ He) ¹⁴¹ Sm	43.1	¹⁴¹ Sm- ¹³³ Cs _{1.060}	7.4	¹⁴¹ Eu(β^+) ¹⁴¹ Sm
¹⁴¹ Eu	81.8	¹⁴¹ Eu- ¹³³ Cs _{1.060}	18.2	¹⁴¹ Eu(β^+) ¹⁴¹ Sm		
¹⁴² Cs	51.6	¹⁴² Cs- ¹³⁶ Xe _{1.044}	24.4	¹⁴² Cs- ¹³³ Cs _{1.068}	20.4	¹⁴² Cs(β^-) ¹⁴² Ba
¹⁴² Ba	48.9	¹⁴² Ba-u	33.8	¹⁴² Ba- ¹³³ Cs _{1.068}	12.0	¹⁴² Cs(β^-) ¹⁴² Ba
¹⁴² La	93.8	¹⁴² La(β^-) ¹⁴² Ce	6.2	¹⁴² Ba(β^-) ¹⁴² La		
¹⁴² Ce	73.4	¹⁴² Ce(n, γ) ¹⁴³ Ce	16.9	¹⁴⁰ Ce(t,p) ¹⁴² Ce	8.7	¹⁴² Ce- ¹⁴⁰ Ce
¹⁴² Pr	62.4	¹⁴² Pr(β^-) ¹⁴² Nd	37.6	¹⁴¹ Pr(n, γ) ¹⁴² Pr		
¹⁴² Nd	80.0	¹⁴² Nd(n, γ) ¹⁴³ Nd	17.5	¹⁴² Pr(β^-) ¹⁴² Nd	1.5	¹⁴⁶ Sm(α) ¹⁴² Nd
¹⁴² Pm	88.7	¹⁴² Pm-u	11.3	¹⁴² Sm(β^+) ¹⁴² Pm		
¹⁴² Sm	80.6	¹²² Te(p,t) ¹²⁰ Te- ¹⁴⁴ Sm() ¹⁴² Sm	11.0	¹³⁰ Ba(p,t) ¹²⁸ Ba- ¹⁴⁴ Sm() ¹⁴² Sm	2.8	¹⁴⁸ Eu- ¹⁴² Sm _{1.042}
¹⁴³ Cs	72.2	¹⁴³ Cs(β^-) ¹⁴³ Ba	15.8	¹⁴³ Cs- ¹⁴⁴ Cs _{.662} ¹⁴¹ Cs _{.338}	8.2	¹⁴² Cs- ¹⁴³ Cs _{.497} ¹⁴¹ Cs _{.504}
¹⁴³ Ba	76.4	¹⁴³ Ba-u	21.6	¹⁴³ Ba- ¹³³ Cs _{1.075}	2.0	¹⁴³ Cs(β^-) ¹⁴³ Ba
¹⁴³ La	81.9	¹⁴³ La-u	18.1	¹⁴³ La(β^-) ¹⁴³ Ce		
¹⁴³ Ce	71.3	¹⁴³ Ce(β^-) ¹⁴³ Pr	26.6	¹⁴² Ce(n, γ) ¹⁴³ Ce	2.1	¹⁴³ La(β^-) ¹⁴³ Ce
¹⁴³ Pr	87.7	¹⁴³ Pr(β^-) ¹⁴³ Nd	12.3	¹⁴³ Ce(β^-) ¹⁴³ Pr		
¹⁴³ Nd	59.6	¹⁴³ Nd(n, γ) ¹⁴⁴ Nd	19.9	¹⁴² Nd(n, γ) ¹⁴³ Nd	16.2	¹⁷⁶ Lu ³⁷ Cl- ¹⁴³ Nd ³⁵ Cl ₂
¹⁴³ Pm	48.9	¹⁴³ Nd(³ He,d) ¹⁴⁴ Pm- ¹⁴² Nd() ¹⁴³ Pm	28.3	¹⁴² Nd(³ He,d) ¹⁴³ Pm	22.7	¹⁴⁷ Eu(α) ¹⁴³ Pm
¹⁴³ Sm	100.0	¹⁴⁴ Sm(p,d) ¹⁴³ Sm- ¹⁴⁸ Gd() ¹⁴⁷ Gd				

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl. Equation	Infl. Equation	Infl. Equation
^{144}Cs	59.0 $^{144}\text{Cs}(\beta^-)^{144}\text{Ba}$	30.4 $^{144}\text{Cs}-^{145}\text{Cs}_{.662}$ $^{142}\text{Cs}_{.338}$	8.2 $^{143}\text{Cs}-^{144}\text{Cs}_{.662}$ $^{141}\text{Cs}_{.338}$
^{144}Ba	71.6 $^{144}\text{Ba-u}$	26.4 $^{144}\text{Ba}-^{133}\text{Cs}_{1.083}$	2.0 $^{144}\text{Cs}(\beta^-)^{144}\text{Ba}$
^{144}Nd	48.5 $^{144}\text{Nd}(n,\gamma)^{145}\text{Nd}$	40.3 $^{143}\text{Nd}(n,\gamma)^{144}\text{Nd}$	10.9 $^{144}\text{Sm}-^{144}\text{Nd}$
^{144}Pm	57.1 $^{144}\text{Nd}(^3\text{He},d)^{145}\text{Pm}-^{143}\text{Nd}(^0)^{144}\text{Pm}$	42.1 $^{143}\text{Nd}(^3\text{He},d)^{144}\text{Pm}-^{142}\text{Nd}(^0)^{143}\text{Pm}$	0.8 $^{148}\text{Eu}(\alpha)^{144}\text{Pm}$
^{144}Sm	81.0 $^{144}\text{Sm}-^{144}\text{Nd}$	8.2 $^{144}\text{Sm}(n,\gamma)^{145}\text{Sm}$	5.5 $^{148}\text{Gd}(\alpha)^{144}\text{Sm}$
^{144}Eu	46.5 $^{144}\text{Eu}-^{133}\text{Cs}_{1.083}$	38.6 $^{144}\text{Eu}(\beta^+)^{144}\text{Sm}$	14.9 $^{144}\text{Eu-u}$
^{145}Cs	92.6 $^{145}\text{Cs}-^{133}\text{Cs}_{1.090}$	2.8 $^{145}\text{Cs}-^{147}\text{Cs}_{.493}$ $^{143}\text{Cs}_{.507}$	1.6 $^{145}\text{Cs}-^{146}\text{Cs}_{.662}$ $^{143}\text{Cs}_{.338}$
^{145}La	98.1 $^{145}\text{La-u}$	1.9 $^{145}\text{La}(\beta^-)^{145}\text{Ce}$	
^{145}Ce	66.9 $^{145}\text{Ce}(\beta^-)^{145}\text{Pr}$	17.5 $^{145}\text{La}(\beta^-)^{145}\text{Ce}$	15.6 $^{145}\text{Ce-u}$
^{145}Pr	49.5 $^{145}\text{Pr}(\beta^-)^{145}\text{Nd}$	49.5 $^{146}\text{Nd}(d,^3\text{He})^{145}\text{Pr}$	1.0 $^{145}\text{Ce}(\beta^-)^{145}\text{Pr}$
^{145}Nd	50.5 $^{144}\text{Nd}(n,\gamma)^{145}\text{Nd}$	49.5 $^{145}\text{Nd}(n,\gamma)^{146}\text{Nd}$	
^{145}Pm	40.9 $^{145}\text{Sm}(\epsilon)^{145}\text{Pm}$	34.0 $^{144}\text{Nd}(^3\text{He},d)^{145}\text{Pm}-^{143}\text{Nd}(^0)^{144}\text{Pm}$	25.1 $^{144}\text{Nd}(^3\text{He},d)^{145}\text{Pm}$
^{145}Sm	91.0 $^{144}\text{Sm}(n,\gamma)^{145}\text{Sm}$	3.6 $^{149}\text{Gd}(\alpha)^{145}\text{Sm}$	2.8 $^{145}\text{Sm}(\epsilon)^{145}\text{Pm}$
^{145}Eu	90.9 $^{144}\text{Sm}(^3\text{He},d)^{145}\text{Eu}$	9.1 $^{149}\text{Tb}(\alpha)^{145}\text{Eu}$	
^{145}Gd	99.1 $^{145}\text{Gd-u}$	0.9 $^{145}\text{Tb}(\beta^+)^{145}\text{Gd}$	
^{145}Tb	64.2 $^{145}\text{Tb}(\beta^+)^{145}\text{Gd}$	35.8 $^{145}\text{Tb-u}$	
^{146}Cs	81.9 $^{146}\text{Cs}(\beta^-)^{146}\text{Ba}$	11.7 $^{145}\text{Cs}-^{146}\text{Cs}_{.662}$ $^{143}\text{Cs}_{.338}$	6.4 $^{145}\text{Cs}-^{146}\text{Cs}_{.497}$ $^{144}\text{Cs}_{.503}$
^{146}Ba	85.6 $^{146}\text{Ba-u}$	10.3 $^{146}\text{Ba}(\beta^-)^{146}\text{La}$	4.1 $^{146}\text{Cs}(\beta^-)^{146}\text{Ba}$
^{146}La	45.7 $^{146}\text{Ba}(\beta^-)^{146}\text{La}$	36.8 $^{146}\text{La}(\beta^-)^{146}\text{Ce}$	17.5 $^{146}\text{La-u}$
^{146}Ce	90.0 $^{146}\text{Ce-u}$	5.8 $^{146}\text{La}(\beta^-)^{146}\text{Ce}$	4.2 $^{146}\text{Ce}(\beta^-)^{146}\text{Pr}$
^{146}Pr	75.8 $^{146}\text{Ce}(\beta^-)^{146}\text{Pr}$	24.2 $^{146}\text{Pr}(\beta^-)^{146}\text{Nd}$	
^{146}Nd	50.4 $^{145}\text{Nd}(n,\gamma)^{146}\text{Nd}$	47.2 $^{146}\text{Nd}(n,\gamma)^{147}\text{Nd}$	2.3 $^{148}\text{Nd }^{35}\text{Cl}-^{146}\text{Nd }^{37}\text{Cl}$
^{146}Sm	45.5 $^{146}\text{Sm}(\alpha)^{142}\text{Nd}$	30.1 $^{146}\text{Sm}(^3\text{He},\alpha)^{145}\text{Sm}$	12.6 $^{148}\text{Sm}(p,t)^{146}\text{Sm}$
^{146}Eu	45.6 $^{146}\text{Eu}(\beta^+)^{146}\text{Sm}$	23.9 $^{144}\text{Sm}(^3\text{He},p)^{146}\text{Eu}$	19.0 $^{146}\text{Eu}-^{133}\text{Cs}_{1.098}$
^{146}Gd	88.4 $^{148}\text{Gd}(p,t)^{146}\text{Gd}-^{65}\text{Cu}(^0)^{63}\text{Cu}$	7.3 $^{150}\text{Dy}(\alpha)^{146}\text{Gd}$	4.2 $^{147}\text{Tb}(p)^{146}\text{Gd}$
^{146}Tb	80.0 $^{146}\text{Tb}(\beta^+)^{146}\text{Gd}$	20.0 $^{146}\text{Dy}(\beta^+)^{146}\text{Tb}$	
^{146}Dy	99.6 $^{146}\text{Dy}-^{85}\text{Rb}_{1.718}$	0.4 $^{146}\text{Dy}(\beta^+)^{146}\text{Tb}$	
^{146}Ho	50.0 $^{146}\text{Ho}-^{133}\text{Cs}_{1.098}$	50.0 $^{146}\text{Ho}-^{85}\text{Rb}_{1.718}$	
^{146}Er	61.2 $^{146}\text{Er}-^{85}\text{Rb}_{1.718}$	38.8 $^{147}\text{Tm}(p)^{146}\text{Er}$	
^{147}Cs	79.1 $^{147}\text{Cs}-^{133}\text{Cs}_{1.105}$	20.9 $^{145}\text{Cs}-^{147}\text{Cs}_{.493}$ $^{143}\text{Cs}_{.507}$	
^{147}Ce	92.1 $^{147}\text{Ce-u}$	7.9 $^{147}\text{Ce}(\beta^-)^{147}\text{Pr}$	
^{147}Pr	52.5 $^{147}\text{Ce}(\beta^-)^{147}\text{Pr}$	47.5 $^{147}\text{Pr}(\beta^-)^{147}\text{Nd}$	
^{147}Nd	52.6 $^{146}\text{Nd}(n,\gamma)^{147}\text{Nd}$	46.4 $^{147}\text{Nd}(\beta^-)^{147}\text{Pm}$	0.7 $^{148}\text{Nd}(d,t)^{147}\text{Nd}$
^{147}Pm	62.6 $^{147}\text{Pm}(\beta^-)^{147}\text{Sm}$	37.4 $^{147}\text{Nd}(\beta^-)^{147}\text{Pm}$	
^{147}Sm	45.8 $^{147}\text{Sm}(n,\gamma)^{148}\text{Sm}$	35.9 $^{147}\text{Pm}(\beta^-)^{147}\text{Sm}$	16.0 $^{149}\text{Sm }^{35}\text{Cl}-^{147}\text{Sm }^{37}\text{Cl}$
^{147}Eu	56.6 $^{147}\text{Eu}(\beta^+)^{147}\text{Sm}$	19.0 $^{147}\text{Gd}(\beta^+)^{147}\text{Eu}$	14.5 $^{147}\text{Eu}(\alpha)^{143}\text{Pm}$
^{147}Gd	85.0 $^{148}\text{Gd}(p,d)^{147}\text{Gd}-^{148}\text{Sm}(^0)^{147}\text{Sm}$	7.7 $^{147}\text{Gd}(\beta^+)^{147}\text{Eu}$	6.0 $^{104}\text{Ru}(d,t)^{103}\text{Ru}-^{148}\text{Gd}(^0)^{147}\text{Gd}$
^{147}Tb	52.8 $^{147}\text{Tb}-^{133}\text{Cs}_{1.105}$	28.3 $^{147}\text{Tb}(\beta^+)^{147}\text{Gd}$	18.9 $^{147}\text{Tb}(p)^{146}\text{Gd}$
^{147}Ho	52.6 $^{147}\text{Ho}-^{85}\text{Rb}_{1.729}$	47.4 $^{147}\text{Ho}-^{133}\text{Cs}_{1.105}$	
^{147}Tm	55.5 $^{147}\text{Tm}(p)^{146}\text{Er}$	44.5 $^{147}\text{Tm}-^{85}\text{Rb}_{1.729}$	
^{148}Cs	100.0 $^{145}\text{Cs}-^{148}\text{Cs}_{.392}$ $^{143}\text{Cs}_{.608}$		
^{148}Ce	85.5 $^{148}\text{Ce-u}$	14.5 $^{148}\text{Ce}(\beta^-)^{148}\text{Pr}$	
^{148}Pr	66.1 $^{148}\text{Ce}(\beta^-)^{148}\text{Pr}$	33.9 $^{148}\text{Pr}(\beta^-)^{148}\text{Nd}$	
^{148}Nd	60.0 $^{148}\text{Nd }^{35}\text{Cl}-^{146}\text{Nd }^{37}\text{Cl}$	16.5 $^{148}\text{Nd}(d,t)^{147}\text{Nd}$	11.8 $^{148}\text{Nd}(^3\text{He},d)^{149}\text{Pm}$
^{148}Sm	51.4 $^{147}\text{Sm}(n,\gamma)^{148}\text{Sm}$	30.4 $^{150}\text{Sm }^{35}\text{Cl}-^{148}\text{Sm }^{37}\text{Cl}$	17.0 $^{148}\text{Sm}(n,\gamma)^{149}\text{Sm}$
^{148}Eu	51.5 $^{148}\text{Eu}-^{133}\text{Cs}_{1.113}$	38.1 $^{148}\text{Eu}-^{142}\text{Sm}_{1.042}$	10.3 $^{148}\text{Eu}(\alpha)^{144}\text{Pm}$
^{148}Gd	94.5 $^{148}\text{Gd}(\alpha)^{144}\text{Sm}$	3.7 $^{148}\text{Gd}(p,d)^{147}\text{Gd}-^{148}\text{Sm}(^0)^{147}\text{Sm}$	1.4 $^{148}\text{Gd}(p,t)^{146}\text{Gd}-^{65}\text{Cu}(^0)^{63}\text{Cu}$
^{148}Tb	84.9 $^{148}\text{Dy}(\beta^+)^{148}\text{Tb}$	10.2 $^{148}\text{Tb}(\beta^+)^{148}\text{Gd}$	4.9 $^{152}\text{Ho}(\alpha)^{148}\text{Tb}$
^{148}Dy	89.8 $^{148}\text{Dy}-^{133}\text{Cs}_{1.113}$	7.3 $^{148}\text{Dy}(\beta^+)^{148}\text{Tb}$	2.9 $^{152}\text{Er}(\alpha)^{148}\text{Dy}$
^{149}Pm	86.3 $^{149}\text{Pm}(\beta^-)^{149}\text{Sm}$	13.7 $^{148}\text{Nd}(^3\text{He},d)^{149}\text{Pm}$	
^{149}Sm	80.4 $^{149}\text{Sm}(n,\gamma)^{150}\text{Sm}$	8.8 $^{148}\text{Sm}(n,\gamma)^{149}\text{Sm}$	8.7 $^{149}\text{Sm }^{35}\text{Cl}-^{147}\text{Sm }^{37}\text{Cl}$
^{149}Eu	56.1 $^{151}\text{Eu}(p,t)^{149}\text{Eu}$	29.8 $^{149}\text{Gd}(\epsilon)^{149}\text{Eu}$	14.1 $^{149}\text{Eu}(\epsilon)^{149}\text{Sm}$
^{149}Gd	52.5 $^{149}\text{Gd}(\alpha)^{145}\text{Sm}$	21.2 $^{153}\text{Dy}(\alpha)^{149}\text{Gd}$	17.9 $^{149}\text{Gd}(\epsilon)^{149}\text{Eu}$
^{149}Tb	85.8 $^{149}\text{Tb}(\alpha)^{145}\text{Eu}$	10.6 $^{149}\text{Tb}(\beta^+)^{149}\text{Gd}$	3.6 $^{149}\text{Dy}(\beta^+)^{149}\text{Tb}$
^{149}Dy	47.8 $^{149}\text{Dy}(\beta^+)^{149}\text{Tb}$	37.3 $^{149}\text{Dy}-^{142}\text{Sm}_{1.049}$	12.1 $^{149}\text{Ho}(\beta^+)^{149}\text{Dy}$

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
^{149}Ho	47.0	$^{149}\text{Ho}(\beta^+)^{149}\text{Dy}$	32.1	$^{153}\text{Tm}(\alpha)^{149}\text{Ho}$	20.9	$^{149}\text{Ho-u}$
^{150}Ce	91.9	$^{150}\text{Ce-u}$	8.1	$^{150}\text{Ce}(\beta^-)^{150}\text{Pr}$		
^{150}Pr	83.4	$^{150}\text{Pr-u}$	12.0	$^{150}\text{Pr}(\beta^-)^{150}\text{Nd}$	4.6	$^{150}\text{Ce}(\beta^-)^{150}\text{Pr}$
^{150}Nd	99.2	$^{150}\text{Nd}-^{150}\text{Sm}$	0.4	$^{150}\text{Nd}(n,\gamma)^{151}\text{Nd}$	0.4	$^{150}\text{Pr}(\beta^-)^{150}\text{Nd}$
^{150}Sm	64.5	$^{150}\text{Sm}(n,\gamma)^{151}\text{Sm}$	15.0	$^{149}\text{Sm}(n,\gamma)^{150}\text{Sm}$	12.2	$^{150}\text{Sm }^{35}\text{Cl}-^{148}\text{Sm }^{37}\text{Cl}$
^{150}Eu	53.5	$^{150}\text{Eu}(\beta^-)^{150}\text{Gd}$	46.5	$^{151}\text{Eu}(p,d)^{150}\text{Eu}$		
^{150}Gd	39.2	$^{150}\text{Gd}(\alpha)^{146}\text{Sm}$	37.5	$^{150}\text{Eu}(\beta^-)^{150}\text{Gd}$	11.7	$^{150}\text{Tb}(\beta^+)^{150}\text{Gd}$
^{150}Tb	80.5	$^{150}\text{Tb}(\alpha)^{146}\text{Eu}$	19.5	$^{150}\text{Tb}(\beta^+)^{150}\text{Gd}$		
$^{150}\text{Tb}^m$	89.2	$^{150}\text{Tb}^m\text{-u}$	10.8	$^{154}\text{Ho}^m(\alpha)^{150}\text{Tb}^m$		
^{150}Dy	91.7	$^{150}\text{Dy}(\alpha)^{146}\text{Gd}$	6.3	$^{154}\text{Er}(\alpha)^{150}\text{Dy}$	2.0	$^{150}\text{Ho}(\epsilon)^{150}\text{Dy}$
^{150}Ho	53.2	$^{150}\text{Ho}-^{133}\text{Cs}_{1.128}$	26.8	$^{150}\text{Ho}(\epsilon)^{150}\text{Dy}$	20.0	$^{150}\text{Er}(\beta^+)^{150}\text{Ho}$
^{150}Er	62.1	$^{150}\text{Er}(\beta^+)^{150}\text{Ho}$	37.9	$^{150}\text{Er-u}$		
^{151}Pr	76.5	$^{151}\text{Pr-u}$	23.5	$^{151}\text{Pr}(\beta^-)^{151}\text{Nd}$		
^{151}Nd	99.6	$^{150}\text{Nd}(n,\gamma)^{151}\text{Nd}$	0.4	$^{151}\text{Pr}(\beta^-)^{151}\text{Nd}$		
^{151}Pm	80.0	$^{150}\text{Nd}(^3\text{He},d)^{151}\text{Pm}$	20.0	$^{151}\text{Pm}(\beta^-)^{151}\text{Sm}$		
^{151}Sm	40.6	$^{151}\text{Sm}(n,\gamma)^{152}\text{Sm}$	35.1	$^{150}\text{Sm}(n,\gamma)^{151}\text{Sm}$	24.3	$^{151}\text{Sm}(\beta^-)^{151}\text{Eu}$
^{151}Eu	55.2	$^{151}\text{Sm}(\beta^-)^{151}\text{Eu}$	42.2	$^{151}\text{Eu}(n,\gamma)^{152}\text{Eu}$	0.9	$^{151}\text{Eu}(p,t)^{149}\text{Eu}$
^{151}Gd	85.0	$^{151}\text{Gd}(\epsilon)^{151}\text{Eu}$	15.0	$^{151}\text{Tb}(\beta^+)^{151}\text{Gd}$		
^{151}Tb	51.4	$^{151}\text{Tb}(\beta^+)^{151}\text{Gd}$	48.6	$^{151}\text{Tb}(\alpha)^{147}\text{Eu}$		
^{152}Nd	66.4	$^{150}\text{Nd}(t,p)^{152}\text{Nd}$	33.6	$^{152}\text{Nd}(\beta^-)^{152}\text{Pm}$		
^{152}Pm	51.4	$^{152}\text{Nd}(\beta^-)^{152}\text{Pm}$	48.6	$^{152}\text{Pm}(\beta^-)^{152}\text{Sm}$		
^{152}Sm	71.3	$^{152}\text{Gd}-^{152}\text{Sm}$	17.0	$^{151}\text{Sm}(n,\gamma)^{152}\text{Sm}$	6.6	$^{152}\text{Eu}(\beta^+)^{152}\text{Sm}$
^{152}Eu	57.2	$^{151}\text{Eu}(n,\gamma)^{152}\text{Eu}$	25.0	$^{152}\text{Eu}(\beta^+)^{152}\text{Sm}$	17.8	$^{152}\text{Eu}(n,\gamma)^{153}\text{Eu}$
^{152}Gd	73.1	$^{152}\text{Gd}(n,\gamma)^{153}\text{Gd}$	26.9	$^{152}\text{Gd}-^{152}\text{Sm}$		
^{152}Ho	95.0	$^{152}\text{Ho}(\alpha)^{148}\text{Tb}$	5.0	$^{156}\text{Tm}(\alpha)^{152}\text{Ho}$		
^{152}Er	97.0	$^{152}\text{Er}(\alpha)^{148}\text{Dy}$	3.0	$^{156}\text{Yb}(\alpha)^{152}\text{Er}$		
^{152}Tm	100.0	$^{152}\text{Tm-u}$				
^{152}Yb	100.0	$^{152}\text{Yb}(\beta^+)^{152}\text{Tm}$				
^{153}Pr	79.7	$^{153}\text{Pr-u}$	10.2	$^{153}\text{Pr}-^{86}\text{Kr}_{1.779}$	10.2	$^{153}\text{Pr}-^{80}\text{Kr}_{1.913}$
^{153}Nd	35.8	$^{153}\text{Nd}-^{80}\text{Kr}_{1.913}$	32.2	$^{153}\text{Nd-u}$	31.0	$^{153}\text{Nd}-^{86}\text{Kr}_{1.779}$
^{153}Pm	33.3	$^{154}\text{Sm}(d,^3\text{He})^{153}\text{Pm}$	17.9	$^{153}\text{Pm-u}$	17.9	$^{153}\text{Pm}-^{86}\text{Kr}_{1.779}$
^{153}Eu	81.8	$^{152}\text{Eu}(n,\gamma)^{153}\text{Eu}$	18.2	$^{153}\text{Eu}(n,\gamma)^{154}\text{Eu}$		
^{153}Gd	73.3	$^{153}\text{Gd}(n,\gamma)^{154}\text{Gd}$	25.9	$^{152}\text{Gd}(n,\gamma)^{153}\text{Gd}$	0.8	$^{153}\text{Tb}(\beta^+)^{153}\text{Gd}$
^{153}Tb	58.6	$^{153}\text{Tb}(\beta^+)^{153}\text{Gd}$	41.4	$^{153}\text{Dy}(\beta^+)^{153}\text{Tb}$		
^{153}Dy	52.1	$^{153}\text{Dy}(\beta^+)^{153}\text{Tb}$	47.9	$^{153}\text{Dy}(\alpha)^{149}\text{Gd}$		
^{153}Er	97.1	$^{153}\text{Er}(\alpha)^{149}\text{Dy}$	2.9	$^{157}\text{Yb}(\alpha)^{153}\text{Er}$		
^{153}Tm	67.7	$^{153}\text{Tm}(\alpha)^{149}\text{Ho}$	32.3	$^{157}\text{Lu}^m(\alpha)^{153}\text{Tm}$		
^{154}Sm	78.3	$^{154}\text{Sm }^{35}\text{Cl}-^{152}\text{Sm }^{37}\text{Cl}$	20.7	$^{154}\text{Sm}-^{154}\text{Gd}$	0.9	$^{154}\text{Sm}(d,^3\text{He})^{153}\text{Pm}$
^{154}Eu	80.0	$^{153}\text{Eu}(n,\gamma)^{154}\text{Eu}$	16.0	$^{154}\text{Eu}(\beta^-)^{154}\text{Gd}$	3.6	$^{154}\text{Eu}(n,\gamma)^{155}\text{Eu}$
^{154}Gd	70.7	$^{154}\text{Gd}(n,\gamma)^{155}\text{Gd}$	25.0	$^{153}\text{Gd}(n,\gamma)^{154}\text{Gd}$	3.6	$^{154}\text{Eu}(\beta^-)^{154}\text{Gd}$
^{154}Dy	81.3	$^{154}\text{Dy}(\alpha)^{150}\text{Gd}$	17.9	$^{154}\text{Dy}-^{133}\text{Cs}_{1.158}$	0.8	$^{154}\text{Ho}^m(\beta^+)^{154}\text{Dy}$
$^{154}\text{Ho}^m$	89.0	$^{154}\text{Ho}^m(\alpha)^{150}\text{Tb}^m$	11.0	$^{154}\text{Ho}^m(\beta^+)^{154}\text{Dy}$		
^{154}Er	91.4	$^{154}\text{Er}(\alpha)^{150}\text{Dy}$	8.6	$^{158}\text{Yb}(\alpha)^{154}\text{Er}$		
^{154}Yb	100.0	$^{154}\text{Yb}(\alpha)^{150}\text{Er}$				
^{155}Pr	35.5	$^{155}\text{Pr-u}$	33.3	$^{155}\text{Pr}-^{86}\text{Kr}_{1.802}$	31.2	$^{155}\text{Pr}-^{80}\text{Kr}_{1.938}$
^{155}Nd	33.4	$^{155}\text{Nd-u}$	33.4	$^{155}\text{Nd}-^{86}\text{Kr}_{1.802}$	33.2	$^{155}\text{Nd}-^{80}\text{Kr}_{1.938}$
^{155}Pm	33.7	$^{155}\text{Pm}-^{80}\text{Kr}_{1.938}$	33.1	$^{155}\text{Pm-u}$	33.1	$^{155}\text{Pm}-^{86}\text{Kr}_{1.802}$
^{155}Eu	96.2	$^{154}\text{Eu}(n,\gamma)^{155}\text{Eu}$	3.8	$^{158}\text{Gd}(t,\alpha)^{157}\text{Eu}-^{156}\text{Gd}()^{155}\text{Eu}$		
^{155}Gd	49.7	$^{155}\text{Gd}(n,\gamma)^{156}\text{Gd}$	28.9	$^{154}\text{Gd}(n,\gamma)^{155}\text{Gd}$	20.0	$^{155}\text{Gd O}-\text{C}_{15}$
^{155}Dy	92.0	$^{156}\text{Dy}(d,t)^{155}\text{Dy}$	8.0	$^{155}\text{Ho}(\beta^+)^{155}\text{Dy}$		
^{155}Ho	60.8	$^{155}\text{Ho}(\beta^+)^{155}\text{Dy}$	39.2	$^{155}\text{Ho-u}$		
^{156}Pm	35.2	$^{156}\text{Pm}-^{80}\text{Kr}_{1.950}$	32.9	$^{156}\text{Pm}-^{86}\text{Kr}_{1.814}$	31.9	$^{156}\text{Pm-u}$
^{156}Sm	86.4	$^{156}\text{Sm}(\beta^-)^{156}\text{Eu}$	13.6	$^{154}\text{Sm}(t,p)^{156}\text{Sm}$		
^{156}Eu	68.2	$^{156}\text{Eu}(\beta^-)^{156}\text{Gd}$	27.8	$^{154}\text{Eu}(t,p)^{156}\text{Eu}$	4.0	$^{156}\text{Sm}(\beta^-)^{156}\text{Eu}$
^{156}Gd	53.7	$^{156}\text{Gd}(n,\gamma)^{157}\text{Gd}$	50.2	$^{155}\text{Gd}(n,\gamma)^{156}\text{Gd}$	0.5	$^{156}\text{Dy}-^{156}\text{Gd}$

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
^{156}Tb	100.0	$^{155}\text{Gd}(\alpha, t)^{156}\text{Tb} - ^{158}\text{Gd}()^{159}\text{Tb}$				
^{156}Dy	99.5	$^{156}\text{Dy} - ^{156}\text{Gd}$	0.3	$^{156}\text{Dy}(\text{d}, \text{p})^{157}\text{Dy}$	0.2	$^{156}\text{Dy}(\text{d}, \text{t})^{155}\text{Dy}$
^{156}Er	77.7	$^{156}\text{Er} - \text{u}$	22.3	$^{156}\text{Tm}(\beta^+)^{156}\text{Er}$		
^{156}Tm	93.5	$^{156}\text{Tm}(\alpha)^{152}\text{Ho}$	6.5	$^{156}\text{Tm}(\beta^+)^{156}\text{Er}$		
^{156}Yb	96.6	$^{156}\text{Yb}(\alpha)^{152}\text{Er}$	3.4	$^{160}\text{Hf}(\alpha)^{156}\text{Yb}$		
^{156}Hf	100.0	$^{156}\text{Hf}(\alpha)^{152}\text{Yb}$				
^{157}Nd	33.8	$^{157}\text{Nd} - ^{86}\text{Kr}_{1.826}$	33.8	$^{157}\text{Nd} - ^{80}\text{Kr}_{1.963}$	32.4	$^{157}\text{Nd} - \text{u}$
^{157}Pm	33.5	$^{157}\text{Pm} - \text{u}$	33.5	$^{157}\text{Pm} - ^{86}\text{Kr}_{1.826}$	33.0	$^{157}\text{Pm} - ^{80}\text{Kr}_{1.963}$
^{157}Sm	34.2	$^{157}\text{Sm} - ^{80}\text{Kr}_{1.963}$	32.9	$^{157}\text{Sm} - \text{u}$	32.9	$^{157}\text{Sm} - ^{86}\text{Kr}_{1.826}$
^{157}Eu	66.0	$^{158}\text{Gd}(\text{t}, \alpha)^{157}\text{Eu} - ^{156}\text{Gd}()^{155}\text{Eu}$	34.0	$^{160}\text{Gd}(\text{t}, \alpha)^{159}\text{Eu} - ^{158}\text{Gd}()^{157}\text{Eu}$		
^{157}Gd	45.1	$^{156}\text{Gd}(\text{n}, \gamma)^{157}\text{Gd}$	36.4	$^{157}\text{Gd}(\text{n}, \gamma)^{158}\text{Gd}$	12.4	$^{157}\text{Gd} \text{O} - \text{C}_{15}$
^{157}Tb	96.1	$^{157}\text{Tb}(\epsilon)^{157}\text{Gd}$	3.9	$^{156}\text{Gd}(\alpha, \text{t})^{157}\text{Tb} - ^{158}\text{Gd}()^{159}\text{Tb}$		
^{157}Dy	52.3	$^{156}\text{Dy}(\text{d}, \text{p})^{157}\text{Dy}$	46.8	$^{158}\text{Dy}(\text{d}, \text{t})^{157}\text{Dy}$	0.9	$^{157}\text{Ho}(\beta^+)^{157}\text{Dy}$
^{157}Ho	70.5	$^{157}\text{Ho} - \text{u}$	21.8	$^{157}\text{Ho}(\beta^+)^{157}\text{Dy}$	7.8	$^{157}\text{Er}(\beta^+)^{157}\text{Ho}$
^{157}Er	80.2	$^{157}\text{Er} - \text{u}$	10.8	$^{157}\text{Tm}(\beta^+)^{157}\text{Er}$	9.0	$^{157}\text{Er}(\beta^+)^{157}\text{Ho}$
^{157}Tm	88.0	$^{157}\text{Tm} - \text{u}$	12.0	$^{157}\text{Tm}(\beta^+)^{157}\text{Er}$		
^{157}Yb	96.1	$^{157}\text{Yb}(\alpha)^{153}\text{Er}$	3.9	$^{161}\text{Hf}(\alpha)^{157}\text{Yb}$		
^{157}Lu	74.3	$^{157}\text{Lu}^m(\text{IT})^{157}\text{Lu}$	25.7	$^{157}\text{Lu} - \text{u}$		
$^{157}\text{Lu}^m$	67.2	$^{157}\text{Lu}^m(\alpha)^{153}\text{Tm}$	25.3	$^{157}\text{Lu}^m(\text{IT})^{157}\text{Lu}$	7.5	$^{161}\text{Ta}^m(\alpha)^{157}\text{Lu}^m$
^{158}Pm	33.4	$^{158}\text{Pm} - \text{u}$	33.4	$^{158}\text{Pm} - ^{86}\text{Kr}_{1.837}$	33.3	$^{158}\text{Pm} - ^{80}\text{Kr}_{1.975}$
^{158}Sm	32.4	$^{158}\text{Sm} - ^{80}\text{Kr}_{1.975}$	31.2	$^{158}\text{Sm} - ^{86}\text{Kr}_{1.837}$	30.6	$^{158}\text{Sm} - \text{u}$
^{158}Eu	41.9	$^{158}\text{Sm}(\beta^-)^{158}\text{Eu}$	19.4	$^{158}\text{Eu} - \text{u}$	19.4	$^{158}\text{Eu} - ^{86}\text{Kr}_{1.837}$
^{158}Gd	63.1	$^{157}\text{Gd}(\text{n}, \gamma)^{158}\text{Gd}$	13.2	$^{158}\text{Gd} \text{O} - \text{C}_{15}$	10.8	$^{160}\text{Gd} \text{ } ^{35}\text{Cl} - ^{158}\text{Gd} \text{ } ^{37}\text{Cl}$
^{158}Tb	40.0	$^{157}\text{Gd}(\alpha, \text{t})^{158}\text{Tb} - ^{158}\text{Gd}()^{159}\text{Tb}$	39.9	$^{159}\text{Tb}(\text{d}, \text{t})^{158}\text{Tb} - ^{164}\text{Dy}()^{163}\text{Dy}$	17.8	$^{158}\text{Gd}(\text{d}, \text{t})^{157}\text{Gd} - ^{159}\text{Tb}()^{158}\text{Tb}$
^{158}Dy	61.6	$^{160}\text{Dy}(\text{p}, \text{t})^{158}\text{Dy}$	17.0	$^{160}\text{Dy} \text{ } ^{35}\text{Cl} - ^{158}\text{Dy} \text{ } ^{37}\text{Cl}$	15.4	$^{158}\text{Tb}(\beta^-)^{158}\text{Dy}$
^{158}Er	81.4	$^{158}\text{Er} - \text{u}$	18.6	$^{158}\text{Tm}(\beta^+)^{158}\text{Er}$		
^{158}Tm	81.4	$^{158}\text{Tm} - \text{u}$	18.6	$^{158}\text{Tm}(\beta^+)^{158}\text{Er}$		
^{158}Yb	71.1	$^{158}\text{Yb}(\alpha)^{154}\text{Er}$	14.6	$^{162}\text{Hf}(\alpha)^{158}\text{Yb}$	14.3	$^{158}\text{Yb} - ^{142}\text{Sm}_{1.113}$
^{158}Hf	100.0	$^{158}\text{Hf}(\alpha)^{154}\text{Yb}$				
^{159}Pm	35.8	$^{159}\text{Pm} - \text{u}$	32.2	$^{159}\text{Pm} - ^{86}\text{Kr}_{1.849}$	32.0	$^{159}\text{Pm} - ^{80}\text{Kr}_{1.988}$
^{159}Sm	33.5	$^{159}\text{Sm} - \text{u}$	33.5	$^{159}\text{Sm} - ^{86}\text{Kr}_{1.849}$	32.9	$^{159}\text{Sm} - ^{80}\text{Kr}_{1.988}$
^{159}Eu	35.2	$^{160}\text{Gd}(\text{t}, \alpha)^{159}\text{Eu} - ^{158}\text{Gd}()^{157}\text{Eu}$	21.8	$^{159}\text{Eu} - \text{u}$	21.8	$^{159}\text{Eu} - ^{86}\text{Kr}_{1.849}$
^{159}Gd	96.4	$^{158}\text{Gd}(\text{n}, \gamma)^{159}\text{Gd}$	3.6	$^{159}\text{Gd}(\beta^-)^{159}\text{Tb}$		
^{159}Tb	25.2	$^{159}\text{Tb} \text{ } ^{35}\text{Cl} - ^{157}\text{Gd} \text{ } ^{37}\text{Cl}$	22.4	$^{159}\text{Gd}(\beta^-)^{159}\text{Tb}$	12.1	$^{156}\text{Gd}(\alpha, \text{t})^{157}\text{Tb} - ^{158}\text{Gd}()^{159}\text{Tb}$
^{159}Dy	72.5	$^{159}\text{Dy}(\epsilon)^{159}\text{Tb}$	27.5	$^{161}\text{Dy}(\text{p}, \text{t})^{159}\text{Dy}$		
^{160}Sm	33.5	$^{160}\text{Sm} - \text{u}$	33.5	$^{160}\text{Sm} - ^{86}\text{Kr}_{1.860}$	32.9	$^{160}\text{Sm} - ^{80}\text{Kr}_{2.000}$
^{160}Eu	36.0	$^{160}\text{Eu} - \text{u}$	32.1	$^{160}\text{Eu} - ^{86}\text{Kr}_{1.860}$	31.9	$^{160}\text{Eu} - ^{80}\text{Kr}_{2.000}$
^{160}Gd	39.4	$^{160}\text{Gd} \text{ } ^{35}\text{Cl} - ^{158}\text{Gd} \text{ } ^{37}\text{Cl}$	30.5	$^{160}\text{Gd}(\alpha, \text{t})^{161}\text{Tb} - ^{158}\text{Gd}()^{159}\text{Tb}$	14.9	$^{160}\text{Gd} - ^{160}\text{Dy}$
^{160}Tb	93.9	$^{159}\text{Tb}(\text{n}, \gamma)^{160}\text{Tb}$	6.1	$^{160}\text{Tb}(\text{n}, \gamma)^{161}\text{Tb}$		
^{160}Dy	64.3	$^{160}\text{Dy}(\text{n}, \gamma)^{161}\text{Dy}$	32.4	$^{160}\text{Gd} - ^{160}\text{Dy}$	2.6	$^{160}\text{Dy}(\text{p}, \text{t})^{158}\text{Dy}$
^{160}Er	94.8	$^{160}\text{Er} - \text{u}$	5.2	$^{160}\text{Tm}(\beta^+)^{160}\text{Er}$		
^{160}Tm	88.9	$^{160}\text{Tm} - \text{u}$	11.1	$^{160}\text{Tm}(\beta^+)^{160}\text{Er}$		
^{160}Hf	96.4	$^{160}\text{Hf}(\alpha)^{156}\text{Yb}$	3.6	$^{164}\text{W}(\alpha)^{160}\text{Hf}$		
^{160}W	100.0	$^{160}\text{W}(\alpha)^{156}\text{Hf}$				
^{161}Sm	36.6	$^{161}\text{Sm} - ^{80}\text{Kr}_{2.013}$	31.7	$^{161}\text{Sm} - \text{u}$	31.7	$^{161}\text{Sm} - ^{86}\text{Kr}_{1.872}$
^{161}Eu	34.5	$^{161}\text{Eu} - \text{u}$	34.3	$^{161}\text{Eu} - ^{80}\text{Kr}_{2.013}$	31.2	$^{161}\text{Eu} - ^{86}\text{Kr}_{1.872}$
^{161}Tb	78.0	$^{160}\text{Tb}(\text{n}, \gamma)^{161}\text{Tb}$	22.0	$^{160}\text{Gd}(\alpha, \text{t})^{161}\text{Tb} - ^{158}\text{Gd}()^{159}\text{Tb}$		
^{161}Dy	35.6	$^{160}\text{Dy}(\text{n}, \gamma)^{161}\text{Dy}$	29.9	$^{161}\text{Dy}(\text{n}, \gamma)^{162}\text{Dy}$	19.0	$^{161}\text{Dy} \text{ } ^{35}\text{Cl} - ^{159}\text{Tb} \text{ } ^{37}\text{Cl}$
^{161}Ho	100.0	$^{160}\text{Dy}(\text{ } ^3\text{He}, \text{d})^{161}\text{Ho} - ^{164}\text{Dy}()^{165}\text{Ho}$				
^{161}Hf	65.1	$^{161}\text{Hf} - \text{u}$	19.4	$^{161}\text{Hf}(\alpha)^{157}\text{Yb}$	15.5	$^{165}\text{W}(\alpha)^{161}\text{Hf}$
$^{161}\text{Ta}^m$	88.8	$^{165}\text{Re}^m(\alpha)^{161}\text{Ta}^m$	11.2	$^{161}\text{Ta}^m(\alpha)^{157}\text{Lu}^m$		
^{161}Re	79.2	$^{161}\text{Re}(\text{p})^{160}\text{W}$	20.9	$^{161}\text{Re}^m(\text{IT})^{161}\text{Re}$		
$^{161}\text{Re}^m$	78.2	$^{161}\text{Re}^m(\text{IT})^{161}\text{Re}$	21.8	$^{165}\text{Ir}^m(\alpha)^{161}\text{Re}^m$		
^{162}Dy	70.0	$^{161}\text{Dy}(\text{n}, \gamma)^{162}\text{Dy}$	46.5	$^{162}\text{Dy}(\text{n}, \gamma)^{163}\text{Dy}$		
^{162}Ho	100.0	$^{161}\text{Dy}(\text{ } ^3\text{He}, \text{d})^{162}\text{Ho} - ^{164}\text{Dy}()^{165}\text{Ho}$				

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl. Equation	Infl. Equation	Infl. Equation
^{162}Er	99.9 $^{162}\text{Er}-^{162}\text{Dy}$	0.1 $^{162}\text{Er}(\text{d,p})^{163}\text{Er}$	
^{162}Hf	80.7 $^{162}\text{Hf}(\alpha)^{158}\text{Yb}$	19.3 $^{166}\text{W}(\alpha)^{162}\text{Hf}$	
^{162}W	100.0 $^{162}\text{W}(\alpha)^{158}\text{Hf}$		
^{163}Gd	36.4 $^{163}\text{Gd}-^{86}\text{Kr}_{1.895}$	32.0 $^{163}\text{Gd-u}$	31.7 $^{163}\text{Gd}-^{80}\text{Kr}_{2.038}$
^{163}Dy	53.4 $^{162}\text{Dy}(\text{n},\gamma)^{163}\text{Dy}$	30.7 $^{163}\text{Dy}(\text{n},\gamma)^{164}\text{Dy}$	16.6 $^{163}\text{Ho}(\varepsilon)^{163}\text{Dy}$
^{163}Ho	83.3 $^{163}\text{Ho}(\varepsilon)^{163}\text{Dy}$	16.6 $^{162}\text{Dy}(\text{}^3\text{He,d})^{163}\text{Ho}-^{164}\text{Dy}()^{165}\text{Ho}$	
^{163}Er	58.2 $^{163}\text{Er}(\beta^+)^{163}\text{Ho}$	20.9 $^{164}\text{Er}(\text{d,t})^{163}\text{Er}$	20.9 $^{162}\text{Er}(\text{d,p})^{163}\text{Er}$
^{163}Hf	78.6 $^{163}\text{Hf-u}$	21.4 $^{167}\text{W}(\alpha)^{163}\text{Hf}$	
^{164}Dy	68.9 $^{163}\text{Dy}(\text{n},\gamma)^{164}\text{Dy}$	16.6 $^{162}\text{Dy}(\text{}^3\text{He,d})^{163}\text{Ho}-^{164}\text{Dy}()^{165}\text{Ho}$	7.8 $^{158}\text{Gd}(\alpha,\text{t})^{159}\text{Tb}-^{164}\text{Dy}()^{165}\text{Ho}$
^{164}Ho	67.1 $^{163}\text{Dy}(\text{}^3\text{He,d})^{164}\text{Ho}-^{164}\text{Dy}()^{165}\text{Ho}$	32.9 $^{165}\text{Ho}(\gamma,\text{n})^{164}\text{Ho}$	
^{164}Er	94.2 $^{164}\text{Er}-^{164}\text{Dy}$	6.0 $^{164}\text{Er}(\text{n},\gamma)^{165}\text{Er}$	3.3 $^{166}\text{Er }^{35}\text{Cl}-^{164}\text{Er }^{37}\text{Cl}$
^{164}Tm	76.2 $^{164}\text{Tm-u}$	23.8 $^{164}\text{Tm}(\beta^+)^{164}\text{Er}$	
^{164}Hf	68.0 $^{168}\text{W}(\alpha)^{164}\text{Hf}$	32.0 $^{164}\text{Hf-u}$	
^{164}W	96.3 $^{164}\text{W}(\alpha)^{160}\text{Hf}$	3.7 $^{168}\text{Os}(\alpha)^{164}\text{W}$	
^{164}Os	80.0 $^{164}\text{Os}(\alpha)^{160}\text{W}$	20.0 $^{165}\text{Ir}^m(\text{p})^{164}\text{Os}$	
^{165}Ho	55.0 $^{162}\text{Dy}(\text{}^3\text{He,d})^{163}\text{Ho}-^{164}\text{Dy}()^{165}\text{Ho}$	29.1 $^{165}\text{Ho}(\text{n},\gamma)^{166}\text{Ho}$	10.3 $^{169}\text{Tm }^{35}\text{Cl}_2-^{165}\text{Ho }^{37}\text{Cl}_2$
^{165}Er	88.2 $^{164}\text{Er}(\text{n},\gamma)^{165}\text{Er}$	7.3 $^{165}\text{Tm}(\beta^+)^{165}\text{Er}$	4.5 $^{167}\text{Er}(\text{p,t})^{165}\text{Er}$
^{165}Tm	52.3 $^{165}\text{Tm}(\beta^+)^{165}\text{Er}$	47.7 $^{164}\text{Er}(\alpha,\text{t})^{165}\text{Tm}-^{168}\text{Er}()^{169}\text{Tm}$	
^{165}Yb	90.2 $^{165}\text{Yb-u}$	9.8 $^{165}\text{Lu}(\beta^+)^{165}\text{Yb}$	
^{165}Lu	90.2 $^{165}\text{Lu-u}$	9.8 $^{165}\text{Lu}(\beta^+)^{165}\text{Yb}$	
^{165}Ta	75.4 $^{169}\text{Re}^m(\alpha)^{165}\text{Ta}$	24.6 $^{165}\text{Ta-u}$	
^{165}W	79.9 $^{165}\text{W-u}$	20.1 $^{165}\text{W}(\alpha)^{161}\text{Hf}$	
$^{165}\text{Re}^m$	89.0 $^{169}\text{Ir}^m(\alpha)^{165}\text{Re}^m$	11.0 $^{165}\text{Re}^m(\alpha)^{161}\text{Ta}^m$	
$^{165}\text{Ir}^m$	51.6 $^{165}\text{Ir}^m(\text{p})^{164}\text{Os}$	48.4 $^{165}\text{Ir}^m(\alpha)^{161}\text{Re}^m$	
^{166}Ho	71.0 $^{165}\text{Ho}(\text{n},\gamma)^{166}\text{Ho}$	29.1 $^{166}\text{Ho}(\beta^-)^{166}\text{Er}$	
^{166}Er	46.3 $^{166}\text{Ho}(\beta^-)^{166}\text{Er}$	45.3 $^{166}\text{Er}(\text{n},\gamma)^{167}\text{Er}$	8.7 $^{166}\text{Er }^{35}\text{Cl}-^{164}\text{Er }^{37}\text{Cl}$
^{166}W	77.6 $^{166}\text{W}(\alpha)^{162}\text{Hf}$	11.6 $^{166}\text{W-u}$	10.8 $^{170}\text{Os}(\alpha)^{166}\text{W}$
^{166}Os	100.0 $^{166}\text{Os}(\alpha)^{162}\text{W}$		
^{167}Er	54.0 $^{166}\text{Er}(\text{n},\gamma)^{167}\text{Er}$	25.3 $^{167}\text{Er}(\text{n},\gamma)^{168}\text{Er}$	8.8 $^{169}\text{Tm }^{35}\text{Cl}-^{167}\text{Er }^{37}\text{Cl}$
^{167}Tm	98.9 $^{166}\text{Er}(\alpha,\text{t})^{167}\text{Tm}-^{168}\text{Er}()^{169}\text{Tm}$	1.1 $^{167}\text{Yb}(\beta^+)^{167}\text{Tm}$	
^{167}Yb	89.1 $^{167}\text{Yb}(\beta^+)^{167}\text{Tm}$	10.9 $^{168}\text{Yb}(\text{d,t})^{167}\text{Yb}$	
^{167}W	89.8 $^{171}\text{Os}(\alpha)^{167}\text{W}$	10.2 $^{167}\text{W}(\alpha)^{163}\text{Hf}$	
^{167}Ir	76.6 $^{167}\text{Ir}(\text{p})^{166}\text{Os}$	23.4 $^{167}\text{Ir}^m(\text{IT})^{167}\text{Ir}$	
$^{167}\text{Ir}^m$	70.3 $^{167}\text{Ir}^m(\text{IT})^{167}\text{Ir}$	29.7 $^{171}\text{Au}^m(\alpha)^{167}\text{Ir}^m$	
^{168}Er	74.4 $^{167}\text{Er}(\text{n},\gamma)^{168}\text{Er}$	10.0 $^{170}\text{Er}(\alpha,\text{t})^{171}\text{Tm}-^{168}\text{Er}()^{169}\text{Tm}$	7.2 $^{164}\text{Er}(\alpha,\text{t})^{165}\text{Tm}-^{168}\text{Er}()^{169}\text{Tm}$
^{168}Tm	100.0 $^{167}\text{Er}(\alpha,\text{t})^{168}\text{Tm}-^{168}\text{Er}()^{169}\text{Tm}$		
^{168}Yb	99.6 $^{168}\text{Yb}-^{168}\text{Er}$	0.4 $^{168}\text{Yb}(\text{d,t})^{167}\text{Yb}$	
^{168}W	58.5 $^{172}\text{Os}(\alpha)^{168}\text{W}$	22.6 $^{168}\text{W-u}$	18.9 $^{168}\text{W}(\alpha)^{164}\text{Hf}$
^{168}Os	96.0 $^{168}\text{Os}(\alpha)^{164}\text{W}$	4.0 $^{172}\text{Pt}(\alpha)^{168}\text{Os}$	
^{169}Tm	41.7 $^{169}\text{Tm}(\text{n},\gamma)^{170}\text{Tm}$	15.8 $^{170}\text{Er}(\alpha,\text{t})^{171}\text{Tm}-^{168}\text{Er}()^{169}\text{Tm}$	15.4 $^{169}\text{Tm }^{35}\text{Cl}_2-^{165}\text{Ho }^{37}\text{Cl}_2$
^{169}W	69.5 $^{173}\text{Os}(\alpha)^{169}\text{W}$	30.5 $^{169}\text{W-u}$	
$^{169}\text{Re}^m$	76.3 $^{173}\text{Ir}(\alpha)^{169}\text{Re}^m$	23.7 $^{169}\text{Re}^m(\alpha)^{165}\text{Ta}$	
$^{169}\text{Ir}^m$	89.3 $^{173}\text{Au}^m(\alpha)^{169}\text{Ir}^m$	10.7 $^{169}\text{Ir}^m(\alpha)^{165}\text{Re}^m$	
^{170}Er	59.9 $^{170}\text{Er}(\alpha,\text{t})^{171}\text{Tm}-^{168}\text{Er}()^{169}\text{Tm}$	27.8 $^{170}\text{Er}(\text{n},\gamma)^{171}\text{Er}$	10.9 $^{170}\text{Er }^{35}\text{Cl}-^{168}\text{Er }^{37}\text{Cl}$
^{170}Tm	57.6 $^{169}\text{Tm}(\text{n},\gamma)^{170}\text{Tm}$	42.4 $^{170}\text{Tm}(\beta^-)^{170}\text{Yb}$	
^{170}Yb	67.2 $^{170}\text{Yb}(\text{n},\gamma)^{171}\text{Yb}$	38.6 $^{170}\text{Tm}(\beta^-)^{170}\text{Yb}$	
^{170}W	77.7 $^{174}\text{Os}(\alpha)^{170}\text{W}$	22.3 $^{170}\text{W-u}$	
^{170}Os	88.4 $^{170}\text{Os}(\alpha)^{166}\text{W}$	11.6 $^{170}\text{Os-u}$	
^{170}Pt	84.4 $^{170}\text{Pt}(\alpha)^{166}\text{Os}$	15.6 $^{171}\text{Au}^m(\text{p})^{170}\text{Pt}$	
^{171}Er	70.4 $^{170}\text{Er}(\text{n},\gamma)^{171}\text{Er}$	29.6 $^{171}\text{Er}(\beta^-)^{171}\text{Tm}$	
^{171}Tm	92.6 $^{171}\text{Tm}(\beta^-)^{171}\text{Yb}$	11.1 $^{171}\text{Er}(\beta^-)^{171}\text{Tm}$	
^{171}Yb	62.9 $^{171}\text{Yb}(\text{n},\gamma)^{172}\text{Yb}$	21.8 $^{170}\text{Yb}(\text{n},\gamma)^{171}\text{Yb}$	8.2 $^{171}\text{Lu}(\beta^+)^{171}\text{Yb}$
^{171}Lu	67.4 $^{170}\text{Yb}(\alpha,\text{t})^{171}\text{Lu}-^{174}\text{Yb}()^{175}\text{Lu}$	32.6 $^{171}\text{Lu}(\beta^+)^{171}\text{Yb}$	
^{171}Os	81.3 $^{171}\text{Os-u}$	9.6 $^{171}\text{Os}(\alpha)^{167}\text{W}$	9.0 $^{175}\text{Pt}(\alpha)^{171}\text{Os}$
$^{171}\text{Au}^m$	61.0 $^{171}\text{Au}^m(\text{p})^{170}\text{Pt}$	39.0 $^{171}\text{Au}^m(\alpha)^{167}\text{Ir}^m$	

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
^{172}Er	87.4	$^{170}\text{Er}(t,p)^{172}\text{Er}$	12.6	$^{172}\text{Er}(\beta^-)^{172}\text{Tm}$		
^{172}Tm	70.0	$^{172}\text{Er}(\beta^-)^{172}\text{Tm}$	30.0	$^{172}\text{Tm}(\beta^-)^{172}\text{Yb}$		
^{172}Yb	57.8	$^{172}\text{Yb}(n,\gamma)^{173}\text{Yb}$	36.7	$^{171}\text{Yb}(n,\gamma)^{172}\text{Yb}$	5.2	$^{172}\text{Yb } ^{35}\text{Cl}_2 - ^{168}\text{Er } ^{37}\text{Cl}_2$
^{172}Lu	100.0	$^{171}\text{Yb}(\alpha,t)^{172}\text{Lu} - ^{174}\text{Yb}()^{175}\text{Lu}$				
^{172}Re	53.1	$^{176}\text{Ir}(\alpha)^{172}\text{Re}$	46.9	$^{172}\text{Re-u}$		
^{172}Os	65.8	$^{176}\text{Pt}(\alpha)^{172}\text{Os}$	34.2	$^{172}\text{Os}(\alpha)^{168}\text{W}$		
^{172}Pt	95.5	$^{172}\text{Pt}(\alpha)^{168}\text{Os}$	4.5	$^{176}\text{Hg}(\alpha)^{172}\text{Pt}$		
^{173}Yb	45.7	$^{173}\text{Yb}(n,\gamma)^{174}\text{Yb}$	40.3	$^{172}\text{Yb}(n,\gamma)^{173}\text{Yb}$	9.5	$^{175}\text{Lu } ^{35}\text{Cl} - ^{173}\text{Yb } ^{37}\text{Cl}$
^{173}Lu	100.0	$^{172}\text{Yb}(\alpha,t)^{173}\text{Lu} - ^{174}\text{Yb}()^{175}\text{Lu}$				
^{173}Os	43.9	$^{177}\text{Pt}(\alpha)^{173}\text{Os}$	28.7	$^{173}\text{Os-u}$	27.4	$^{173}\text{Os}(\alpha)^{169}\text{W}$
^{173}Ir	86.4	$^{177}\text{Au}(\alpha)^{173}\text{Ir}$	13.6	$^{173}\text{Ir}(\alpha)^{169}\text{Re}^m$		
$^{173}\text{Au}^m$	89.6	$^{177}\text{Tl}^m(\alpha)^{173}\text{Au}^m$	10.4	$^{173}\text{Au}^m(\alpha)^{169}\text{Ir}^m$		
^{174}Yb	54.3	$^{173}\text{Yb}(n,\gamma)^{174}\text{Yb}$	37.5	$^{174}\text{Yb}(n,\gamma)^{175}\text{Yb}$	8.3	$^{170}\text{Yb}(\alpha,t)^{171}\text{Lu} - ^{174}\text{Yb}()^{175}\text{Lu}$
^{174}Lu	100.0	$^{173}\text{Yb}(\alpha,t)^{174}\text{Lu} - ^{174}\text{Yb}()^{175}\text{Lu}$				
^{174}Hf	73.7	$^{176}\text{Hf } ^{35}\text{Cl} - ^{174}\text{Hf } ^{37}\text{Cl}$	14.5	$^{174}\text{Hf}(n,\gamma)^{175}\text{Hf}$	11.8	$^{176}\text{Hf}(p,t)^{174}\text{Hf}$
^{174}Os	74.7	$^{178}\text{Pt}(\alpha)^{174}\text{Os}$	13.5	$^{174}\text{Os-u}$	11.9	$^{174}\text{Os}(\alpha)^{170}\text{W}$
^{175}Yb	62.5	$^{174}\text{Yb}(n,\gamma)^{175}\text{Yb}$	37.5	$^{175}\text{Yb}(\beta^-)^{175}\text{Lu}$		
^{175}Lu	69.5	$^{175}\text{Lu}(n,\gamma)^{176}\text{Lu}$	21.3	$^{175}\text{Yb}(\beta^-)^{175}\text{Lu}$	5.4	$^{175}\text{Lu } ^{35}\text{Cl} - ^{173}\text{Yb } ^{37}\text{Cl}$
^{175}Hf	85.0	$^{174}\text{Hf}(n,\gamma)^{175}\text{Hf}$	15.0	$^{177}\text{Hf}(p,t)^{175}\text{Hf}$		
^{175}Os	82.2	$^{179}\text{Pt}(\alpha)^{175}\text{Os}$	17.8	$^{175}\text{Os-u}$		
^{175}Ir	80.4	$^{179}\text{Au}(\alpha)^{175}\text{Ir}$	19.6	$^{175}\text{Ir-u}$		
^{175}Pt	90.8	$^{175}\text{Pt}(\alpha)^{171}\text{Os}$	9.2	$^{179}\text{Hg}(\alpha)^{175}\text{Pt}$		
^{176}Yb	100.0	$^{176}\text{Yb}(\alpha,t)^{177}\text{Lu} - ^{174}\text{Yb}()^{175}\text{Lu}$				
^{176}Lu	40.3	$^{176}\text{Lu}(n,\gamma)^{177}\text{Lu}$	30.3	$^{175}\text{Lu}(n,\gamma)^{176}\text{Lu}$	19.0	$^{176}\text{Lu } ^{37}\text{Cl} - ^{143}\text{Nd } ^{35}\text{Cl}_2$
^{176}Hf	66.0	$^{176}\text{Lu}(\beta^-)^{176}\text{Hf}$	31.2	$^{180}\text{W}(\alpha)^{176}\text{Hf}$	2.4	$^{176}\text{Hf } ^{35}\text{Cl} - ^{174}\text{Hf } ^{37}\text{Cl}$
^{176}Ir	53.6	$^{176}\text{Ir-u}$	39.2	$^{180}\text{Au}(\alpha)^{176}\text{Ir}$	7.2	$^{176}\text{Ir}(\alpha)^{172}\text{Re}$
^{176}Pt	66.4	$^{180}\text{Hg}(\alpha)^{176}\text{Pt}$	33.6	$^{176}\text{Pt}(\alpha)^{172}\text{Os}$		
^{176}Hg	94.4	$^{176}\text{Hg}(\alpha)^{172}\text{Pt}$	5.6	$^{177}\text{Tl}^m(p)^{176}\text{Hg}$		
^{177}Lu	59.0	$^{176}\text{Lu}(n,\gamma)^{177}\text{Lu}$	41.0	$^{177}\text{Lu}(\beta^-)^{177}\text{Hf}$		
^{177}Hf	62.3	$^{177}\text{Hf}(n,\gamma)^{178}\text{Hf}$	36.9	$^{177}\text{Lu}(\beta^-)^{177}\text{Hf}$	0.8	$^{177}\text{Hf}(p,t)^{175}\text{Hf}$
^{177}Pt	55.3	$^{177}\text{Pt}(\alpha)^{173}\text{Os}$	28.8	$^{177}\text{Pt-u}$	16.0	$^{181}\text{Hg}(\alpha)^{177}\text{Pt}$
^{177}Au	87.9	$^{181}\text{Tl}(\alpha)^{177}\text{Au}$	12.1	$^{177}\text{Au}(\alpha)^{173}\text{Ir}$		
$^{177}\text{Tl}^m$	92.5	$^{177}\text{Tl}^m(p)^{176}\text{Hg}$	7.5	$^{177}\text{Tl}^m(\alpha)^{173}\text{Au}^m$		
^{178}Lu	89.4	$^{179}\text{Hf}(t,\alpha)^{178}\text{Lu} - ^{178}\text{Hf}()^{177}\text{Lu}$	10.6	$^{178}\text{Lu}^m(\text{IT})^{178}\text{Lu}$		
$^{178}\text{Lu}^m$	65.8	$^{178}\text{Lu}^m(\text{IT})^{178}\text{Lu}$	34.2	$^{176}\text{Lu}(t,p)^{178}\text{Lu}^m$		
^{178}Hf	63.2	$^{178}\text{Hf}(n,\gamma)^{179}\text{Hf}$	36.8	$^{177}\text{Hf}(n,\gamma)^{178}\text{Hf}$		
^{178}Os	76.2	$^{182}\text{Pt}(\alpha)^{178}\text{Os}$	23.8	$^{178}\text{Os-u}$		
^{178}Pt	62.4	$^{182}\text{Hg}(\alpha)^{178}\text{Pt}$	24.5	$^{178}\text{Pt}(\alpha)^{174}\text{Os}$	13.2	$^{178}\text{Pt-u}$
^{179}Lu	100.0	$^{180}\text{Hf}(t,\alpha)^{179}\text{Lu} - ^{178}\text{Hf}()^{177}\text{Lu}$				
^{179}Hf	36.6	$^{178}\text{Hf}(n,\gamma)^{179}\text{Hf}$	22.2	$^{179}\text{Hf}(n,\gamma)^{180}\text{Hf}$	20.3	$\text{C}_{14} \text{H}_{11} - ^{179}\text{Hf}$
^{179}Ta	89.3	$^{179}\text{Ta}(\epsilon)^{179}\text{Hf}$	10.7	$^{181}\text{Ta}(p,t)^{179}\text{Ta}$		
^{179}W	93.5	$^{180}\text{W}(d,t)^{179}\text{W}$	6.5	$^{179}\text{Re}(\beta^+)^{179}\text{W}$		
^{179}Re	77.7	$^{179}\text{Re-u}$	22.3	$^{179}\text{Re}(\beta^+)^{179}\text{W}$		
^{179}Os	65.1	$^{183}\text{Pt}(\alpha)^{179}\text{Os}$	34.9	$^{179}\text{Os-u}$		
^{179}Ir	87.9	$^{183}\text{Au}(\alpha)^{179}\text{Ir}$	12.1	$^{179}\text{Ir-u}$		
^{179}Pt	92.8	$^{183}\text{Hg}(\alpha)^{179}\text{Pt}$	7.2	$^{179}\text{Pt}(\alpha)^{175}\text{Os}$		
^{179}Au	66.6	$^{183}\text{Tl}^m(\alpha)^{179}\text{Au}$	16.9	$^{179}\text{Au}(\alpha)^{175}\text{Ir}$	16.4	$^{179}\text{Au-u}$
^{179}Hg	74.0	$^{179}\text{Hg} - ^{208}\text{Pb}_{.861}$	26.0	$^{179}\text{Hg}(\alpha)^{175}\text{Pt}$		
^{180}Hf	77.2	$^{179}\text{Hf}(n,\gamma)^{180}\text{Hf}$	22.8	$^{180}\text{W} - ^{180}\text{Hf}$		
^{180}W	75.2	$^{180}\text{W} - ^{180}\text{Hf}$	13.4	$^{180}\text{W}(t,p)^{182}\text{W}$	10.1	$^{180}\text{W}(\alpha)^{176}\text{Hf}$
^{180}Os	66.2	$^{184}\text{Pt}(\alpha)^{180}\text{Os}$	33.8	$^{180}\text{Os-u}$		
^{180}Au	51.3	$^{180}\text{Au-u}$	35.2	$^{180}\text{Au}(\alpha)^{176}\text{Ir}$	13.5	$^{184}\text{Tl}(\alpha)^{180}\text{Au}$
^{180}Hg	38.0	$^{180}\text{Hg} - ^{208}\text{Pb}_{.865}$	32.8	$^{180}\text{Hg}(\alpha)^{176}\text{Pt}$	29.2	$^{184}\text{Pb}(\alpha)^{180}\text{Hg}$
^{181}Ta	42.1	$^{181}\text{Ta}(n,\gamma)^{182}\text{Ta}$	35.7	$^{183}\text{W } ^{35}\text{Cl} - ^{181}\text{Ta } ^{37}\text{Cl}$	10.0	$^{181}\text{Ta } ^{35}\text{Cl} - ^{179}\text{Hf } ^{37}\text{Cl}$
^{181}W	68.7	$^{181}\text{W}(\epsilon)^{181}\text{Ta}$	21.8	$^{182}\text{W}(d,t)^{181}\text{W}$	9.5	$^{180}\text{W}(d,p)^{181}\text{W}$

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
^{181}Os	64.0	$^{181}\text{Os-u}$	36.0	$^{185}\text{Pt}(\alpha)^{181}\text{Os}$		
^{181}Hg	83.0	$^{181}\text{Hg}(\alpha)^{177}\text{Pt}$	17.0	$^{181}\text{Hg}-^{208}\text{Pb}_{.870}$		
^{181}Tl	79.0	$^{181}\text{Tl}-^{133}\text{Cs}_{1.361}$	12.2	$^{185}\text{Bi}^m(\alpha)^{181}\text{Tl}$	8.8	$^{181}\text{Tl}(\alpha)^{177}\text{Au}$
^{182}Ta	57.8	$^{181}\text{Ta}(n,\gamma)^{182}\text{Ta}$	42.2	$^{182}\text{Ta}(\beta^-)^{182}\text{W}$		
^{182}W	96.9	$^{182}\text{W}(n,\gamma)^{183}\text{W}$	1.8	$^{180}\text{W}(t,p)^{182}\text{W}$	1.5	$^{182}\text{Ta}(\beta^-)^{182}\text{W}$
^{182}Os	60.6	$^{182}\text{Os-u}$	39.4	$^{186}\text{Pt}(\alpha)^{182}\text{Os}$		
^{182}Ir	56.3	$^{182}\text{Ir-u}$	43.7	$^{186}\text{Au}(\alpha)^{182}\text{Ir}$		
^{182}Pt	56.8	$^{186}\text{Hg}(\alpha)^{182}\text{Pt}$	22.0	$^{182}\text{Pt-u}$	21.3	$^{182}\text{Pt}(\alpha)^{178}\text{Os}$
^{182}Hg	55.3	$^{182}\text{Hg}-^{208}\text{Pb}_{.875}$	32.4	$^{182}\text{Hg}(\alpha)^{178}\text{Pt}$	12.3	$^{182}\text{Hg-u}$
^{183}W	54.6	$^{183}\text{W O}-\text{C}_2\text{ }^{35}\text{Cl}_5$	39.2	$^{199}\text{Hg}-^{183}\text{W O}$	3.0	$^{182}\text{W}(n,\gamma)^{183}\text{W}$
^{183}Os	76.7	$^{183}\text{Os-u}$	23.3	$^{183}\text{Ir}(\beta^+)^{183}\text{Os}$		
^{183}Ir	76.2	$^{183}\text{Ir-u}$	19.3	$^{187}\text{Au}(\alpha)^{183}\text{Ir}$	4.5	$^{183}\text{Ir}(\beta^+)^{183}\text{Os}$
^{183}Pt	30.4	$^{187}\text{Hg}(\alpha)^{183}\text{Pt}$	27.9	$^{183}\text{Pt}(\alpha)^{179}\text{Os}$	27.2	$^{183}\text{Pt-u}$
^{183}Au	77.6	$^{187}\text{Tl}^m(\alpha)^{183}\text{Au}$	11.3	$^{183}\text{Au-u}$	11.1	$^{183}\text{Au}(\alpha)^{179}\text{Ir}$
^{183}Hg	62.6	$^{187}\text{Pb}(\alpha)^{183}\text{Hg}$	31.8	$^{183}\text{Hg}-^{208}\text{Pb}_{.880}$	5.6	$^{183}\text{Hg}(\alpha)^{179}\text{Pt}$
^{183}Tl	82.9	$^{183}\text{Tl}-^{133}\text{Cs}_{1.376}$	17.1	$^{183}\text{Tl}^m(\text{IT})^{183}\text{Tl}$		
$^{183}\text{Tl}^m$	82.9	$^{183}\text{Tl}^m(\text{IT})^{183}\text{Tl}$	17.1	$^{183}\text{Tl}^m(\alpha)^{179}\text{Au}$		
^{184}W	95.9	$^{183}\text{W}(n,\gamma)^{184}\text{W}$	3.1	$^{186}\text{W}(p,t)^{184}\text{W}-^{184}\text{W}(0)^{182}\text{W}$	1.2	$^{184}\text{W}(n,\gamma)^{185}\text{W}$
^{184}Re	100.0	$^{185}\text{Re}(d,t)^{184}\text{Re}-^{187}\text{Re}(0)^{186}\text{Re}$				
^{184}Os	99.7	$^{184}\text{Os}(n,\gamma)^{185}\text{Os}$	0.3	$^{188}\text{Pt}(\alpha)^{184}\text{Os}$		
^{184}Pt	41.7	$^{188}\text{Hg}(\alpha)^{184}\text{Pt}$	30.4	$^{184}\text{Pt-u}$	27.9	$^{184}\text{Pt}(\alpha)^{180}\text{Os}$
^{184}Hg	38.9	$^{184}\text{Hg-u}$	32.1	$^{184}\text{Hg}-^{208}\text{Pb}_{.885}$	29.0	$^{184}\text{Hg}-^{204}\text{Pb}_{.902}$
^{184}Tl	86.4	$^{184}\text{Tl}-^{133}\text{Cs}_{1.383}$	13.6	$^{184}\text{Tl}(\alpha)^{180}\text{Au}$		
^{184}Pb	69.5	$^{184}\text{Pb}(\alpha)^{180}\text{Hg}$	30.5	$^{185}\text{Bi}^m(p)^{184}\text{Pb}$		
^{185}W	96.5	$^{184}\text{W}(n,\gamma)^{185}\text{W}$	3.5	$^{185}\text{W}(\beta^-)^{185}\text{Re}$		
^{185}Re	70.5	$^{185}\text{W}(\beta^-)^{185}\text{Re}$	15.4	$^{185}\text{Re }^{35}\text{Cl}-^{183}\text{W }^{37}\text{Cl}$	11.4	$^{185}\text{Re}(n,\gamma)^{186}\text{Re}$
^{185}Os	99.7	$^{185}\text{Os}(\epsilon)^{185}\text{Re}$	0.3	$^{184}\text{Os}(n,\gamma)^{185}\text{Os}$		
^{185}Pt	60.3	$^{185}\text{Pt}(\alpha)^{181}\text{Os}$	39.7	$^{185}\text{Pt-u}$		
$^{185}\text{Bi}^m$	63.5	$^{185}\text{Bi}^m(\alpha)^{181}\text{Tl}$	36.5	$^{185}\text{Bi}^m(p)^{184}\text{Pb}$		
^{186}W	46.4	$^{186}\text{W}(p,t)^{184}\text{W}-^{184}\text{W}(0)^{182}\text{W}$	38.5	$^{186}\text{W}(n,\gamma)^{187}\text{W}$	15.0	$^{186}\text{W }^{35}\text{Cl}-^{184}\text{W }^{37}\text{Cl}$
^{186}Re	88.0	$^{185}\text{Re}(n,\gamma)^{186}\text{Re}$	12.0	$^{186}\text{Re}(\beta^-)^{186}\text{Os}$		
^{186}Os	58.6	$^{186}\text{Re}(\beta^-)^{186}\text{Os}$	41.2	$^{186}\text{Os}(n,\gamma)^{187}\text{Os}$	0.2	$^{190}\text{Pt}(\alpha)^{186}\text{Os}$
^{186}Pt	60.6	$^{186}\text{Pt-u}$	39.4	$^{186}\text{Pt}(\alpha)^{182}\text{Os}$		
^{186}Au	56.3	$^{186}\text{Au-u}$	43.7	$^{186}\text{Au}(\alpha)^{182}\text{Ir}$		
^{186}Hg	56.2	$^{186}\text{Hg}-^{204}\text{Pb}_{.912}$	26.4	$^{186}\text{Hg}(\alpha)^{182}\text{Pt}$	17.4	$^{186}\text{Hg-u}$
^{187}W	61.4	$^{186}\text{W}(n,\gamma)^{187}\text{W}$	38.6	$^{187}\text{W}(\beta^-)^{187}\text{Re}$		
^{187}Re	50.7	$^{187}\text{Re}(\beta^-)^{187}\text{Os}$	32.1	$^{187}\text{W}(\beta^-)^{187}\text{Re}$	12.0	$^{187}\text{Re }^{35}\text{Cl}-^{185}\text{Re }^{37}\text{Cl}$
^{187}Os	50.6	$^{186}\text{Os}(n,\gamma)^{187}\text{Os}$	42.3	$^{187}\text{Re}(\beta^-)^{187}\text{Os}$	5.3	$^{187}\text{Os}(n,\gamma)^{188}\text{Os}$
^{187}Pt	74.1	$^{187}\text{Pt-u}$	25.9	$^{187}\text{Au}(\beta^+)^{187}\text{Pt}$		
^{187}Au	63.7	$^{187}\text{Au-u}$	20.9	$^{187}\text{Au}(\beta^+)^{187}\text{Pt}$	15.4	$^{187}\text{Au}(\alpha)^{183}\text{Ir}$
^{187}Hg	55.5	$^{187}\text{Hg}-^{208}\text{Pb}_{.899}$	18.5	$^{187}\text{Hg}(\alpha)^{183}\text{Pt}$	17.2	$^{187}\text{Hg-u}$
$^{187}\text{Hg}^m$	51.0	$^{187}\text{Hg}^m(\text{IT})^{187}\text{Hg}$	49.0	$^{187}\text{Hg}^m(\alpha)^{183}\text{Pt}$		
^{187}Tl	62.2	$^{191}\text{Bi}(\alpha)^{187}\text{Tl}$	37.8	$^{187}\text{Tl}^m(\text{IT})^{187}\text{Tl}$		
$^{187}\text{Tl}^m$	76.5	$^{191}\text{Bi}(\alpha)^{187}\text{Tl}^m$	13.6	$^{187}\text{Tl}^m(\alpha)^{183}\text{Au}$	9.9	$^{187}\text{Tl}^m(\text{IT})^{187}\text{Tl}$
^{187}Pb	85.9	$^{187}\text{Pb}-^{133}\text{Cs}_{1.406}$	14.1	$^{187}\text{Pb}(\alpha)^{183}\text{Hg}$		
$^{187}\text{Pb}^m$	60.7	$^{187}\text{Pb}^m(\text{IT})^{187}\text{Pb}$	39.3	$^{191}\text{Po}(\alpha)^{187}\text{Pb}^m$		
^{188}Os	94.7	$^{187}\text{Os}(n,\gamma)^{188}\text{Os}$	5.2	$^{188}\text{Os}(n,\gamma)^{189}\text{Os}$	0.2	$^{188}\text{Ir}(\beta^+)^{188}\text{Os}$
^{188}Ir	67.6	$^{188}\text{Pt}(\epsilon)^{188}\text{Ir}$	32.4	$^{188}\text{Ir}(\beta^+)^{188}\text{Os}$		
^{188}Pt	70.6	$^{188}\text{Pt}(\alpha)^{184}\text{Os}$	21.3	$^{190}\text{Pt}(p,t)^{188}\text{Pt}$	8.0	$^{188}\text{Pt}(\epsilon)^{188}\text{Ir}$
^{188}Au	57.0	$^{188}\text{Au-u}$	43.0	$^{188}\text{Hg}(\beta^+)^{188}\text{Au}$		
^{188}Hg	52.7	$^{188}\text{Hg}-^{208}\text{Pb}_{.904}$	16.3	$^{188}\text{Hg-u}$	15.6	$^{188}\text{Hg}(\beta^+)^{188}\text{Au}$
^{189}Os	94.2	$^{188}\text{Os}(n,\gamma)^{189}\text{Os}$	5.8	$^{189}\text{Os}(n,\gamma)^{190}\text{Os}$		
^{189}Ir	71.0	$^{191}\text{Ir}(p,t)^{189}\text{Ir}$	29.0	$^{189}\text{Pt}(\beta^+)^{189}\text{Ir}$		
^{189}Pt	80.3	$^{190}\text{Pt}(p,d)^{189}\text{Pt}$	19.7	$^{189}\text{Pt}(\beta^+)^{189}\text{Ir}$		
^{189}Hg	65.0	$^{189}\text{Hg-u}$	35.0	$^{189}\text{Hg}^m(\text{IT})^{189}\text{Hg}$		

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
$^{189}\text{Hg}^m$	92.0	$^{189}\text{Hg}^m - ^{208}\text{Pb}_{.909}$	8.0	$^{189}\text{Hg}^m(\text{IT})^{189}\text{Hg}$		
^{190}W	94.2	$^{190}\text{W}-u$	5.8	$^{190}\text{W}(\beta^-)^{190}\text{Re}$		
^{190}Re	76.5	$^{190}\text{W}(\beta^-)^{190}\text{Re}$	23.5	$^{190}\text{Re}(\beta^-)^{190}\text{Os}$		
^{190}Os	94.1	$^{189}\text{Os}(\text{n},\gamma)^{190}\text{Os}$	5.7	$^{190}\text{Os}(\text{n},\gamma)^{191}\text{Os}$	0.2	$^{192}\text{Os}(\text{p},\text{t})^{190}\text{Os}$
^{190}Pt	56.9	$^{192}\text{Pt}(\text{p},\text{t})^{190}\text{Pt}$	23.5	$^{190}\text{Pt}(\text{p},\text{t})^{188}\text{Pt}$	15.4	$^{190}\text{Pt}(\alpha)^{186}\text{Os}$
^{190}Hg	72.6	$^{190}\text{Hg} - ^{208}\text{Pb}_{.913}$	27.4	$^{194}\text{Pb}(\alpha)^{190}\text{Hg}$		
^{191}Os	94.3	$^{190}\text{Os}(\text{n},\gamma)^{191}\text{Os}$	5.7	$^{191}\text{Os}(\beta^-)^{191}\text{Ir}$		
^{191}Ir	86.3	$^{191}\text{Os}(\beta^-)^{191}\text{Ir}$	12.1	$^{191}\text{Ir}(\text{n},\gamma)^{192}\text{Ir}$	1.5	$^{193}\text{Ir}(\text{t},\alpha)^{192}\text{Os} - ^{191}\text{Ir}(\text{)}^{190}\text{Os}$
^{191}Pt	64.0	$^{192}\text{Pt}(\text{p},\text{d})^{191}\text{Pt} - ^{194}\text{Pt}(\text{)}^{193}\text{Pt}$	35.6	$^{192}\text{Pt}(\text{p},\text{d})^{191}\text{Pt}$	0.4	$^{191}\text{Au}(\beta^+)^{191}\text{Pt}$
^{191}Au	54.4	$^{191}\text{Au}(\beta^+)^{191}\text{Pt}$	25.2	$^{191}\text{Hg}(\beta^+)^{191}\text{Au}$	20.4	$^{191}\text{Au}-u$
^{191}Hg	69.8	$^{191}\text{Hg} - ^{208}\text{Pb}_{.918}$	22.6	$^{191}\text{Hg}-u$	7.6	$^{191}\text{Hg}(\beta^+)^{191}\text{Au}$
^{191}Bi	87.3	$^{191}\text{Bi} - ^{133}\text{Cs}_{1.436}$	11.2	$^{191}\text{Bi}(\alpha)^{187}\text{Tl}^m$	1.4	$^{191}\text{Bi}(\alpha)^{187}\text{Tl}$
^{191}Po	93.9	$^{191}\text{Po}(\alpha)^{187}\text{Pb}$	6.1	$^{191}\text{Po}(\alpha)^{187}\text{Pb}^m$		
^{192}Os	50.5	$^{192}\text{Os}(\text{p},\text{t})^{190}\text{Os}$	30.6	$^{193}\text{Ir}(\text{t},\alpha)^{192}\text{Os} - ^{191}\text{Ir}(\text{)}^{190}\text{Os}$	18.9	$^{192}\text{Os}(\text{n},\gamma)^{193}\text{Os}$
^{192}Ir	87.9	$^{191}\text{Ir}(\text{n},\gamma)^{192}\text{Ir}$	10.6	$^{192}\text{Ir}(\text{n},\gamma)^{193}\text{Ir}$	1.6	$^{192}\text{Ir}(\beta^-)^{192}\text{Pt}$
^{192}Pt	94.0	$^{192}\text{Ir}(\beta^-)^{192}\text{Pt}$	7.9	$^{192}\text{Pt}(\text{p},\text{d})^{191}\text{Pt} - ^{194}\text{Pt}(\text{)}^{193}\text{Pt}$	5.8	$^{192}\text{Pt}(\text{p},\text{t})^{190}\text{Pt}$
^{193}Os	81.0	$^{192}\text{Os}(\text{n},\gamma)^{193}\text{Os}$	19.0	$^{193}\text{Os}(\beta^-)^{193}\text{Ir}$		
^{193}Ir	89.1	$^{192}\text{Ir}(\text{n},\gamma)^{193}\text{Ir}$	8.1	$^{193}\text{Pt}(\epsilon)^{193}\text{Ir}$	4.1	$^{193}\text{Os}(\beta^-)^{193}\text{Ir}$
^{193}Pt	91.7	$^{193}\text{Pt}(\epsilon)^{193}\text{Ir}$	8.3	$^{192}\text{Pt}(\text{p},\text{d})^{191}\text{Pt} - ^{194}\text{Pt}(\text{)}^{193}\text{Pt}$		
^{193}Au	92.5	$^{197}\text{Au}(\alpha, ^8\text{He})^{193}\text{Au}$	7.5	$^{193}\text{Hg}(\beta^+)^{193}\text{Au}$		
^{193}Hg	67.1	$^{193}\text{Hg}(\beta^+)^{193}\text{Au}$	32.9	$^{193}\text{Hg} - ^{208}\text{Pb}_{.928}$		
^{194}Pt	98.3	$^{194}\text{Pt}(\text{n},\gamma)^{195}\text{Pt}$	1.7	$^{192}\text{Pt}(\text{p},\text{d})^{191}\text{Pt} - ^{194}\text{Pt}(\text{)}^{193}\text{Pt}$		
^{194}Pb	60.4	$^{198}\text{Po}(\alpha)^{194}\text{Pb}$	39.6	$^{194}\text{Pb}(\alpha)^{190}\text{Hg}$		
^{195}Pt	98.3	$^{195}\text{Pt}(\text{n},\gamma)^{196}\text{Pt}$	1.7	$^{194}\text{Pt}(\text{n},\gamma)^{195}\text{Pt}$		
^{195}Au	99.9	$^{195}\text{Au}(\epsilon)^{195}\text{Pt}$	0.1	$^{195}\text{Hg}(\beta^+)^{195}\text{Au}$		
^{195}Hg	78.6	$^{195}\text{Hg} - ^{208}\text{Pb}_{.938}$	21.4	$^{195}\text{Hg}(\beta^+)^{195}\text{Au}$		
^{195}Tl	56.4	$^{199}\text{Bi}^m(\alpha)^{195}\text{Tl}$	21.9	$^{195}\text{Tl}-u$	21.7	$^{195}\text{Tl} - ^{133}\text{Cs}_{1.466}$
^{195}Bi	89.5	$^{195}\text{Bi} - ^{133}\text{Cs}_{1.466}$	10.5	$^{199}\text{At}(\alpha)^{195}\text{Bi}$		
^{196}Pt	97.5	$^{196}\text{Pt}(\text{n},\gamma)^{197}\text{Pt}$	1.7	$^{195}\text{Pt}(\text{n},\gamma)^{196}\text{Pt}$	0.9	$^{196}\text{Au}(\beta^+)^{196}\text{Pt}$
^{196}Au	51.7	$^{197}\text{Au}(\gamma,\text{n})^{196}\text{Au}$	31.0	$^{196}\text{Au}(\beta^-)^{196}\text{Hg}$	17.3	$^{196}\text{Au}(\beta^+)^{196}\text{Pt}$
^{196}Hg	57.1	$^{198}\text{Hg} - ^{35}\text{Cl} - ^{196}\text{Hg} - ^{37}\text{Cl}$	29.9	$^{196}\text{Au}(\beta^-)^{196}\text{Hg}$	13.0	$^{196}\text{Hg}(\text{n},\gamma)^{197}\text{Hg}$
^{197}Pt	95.7	$^{197}\text{Pt}(\beta^-)^{197}\text{Au}$	2.2	$^{196}\text{Pt}(\text{n},\gamma)^{197}\text{Pt}$	2.0	$^{198}\text{Pt}(\text{p},\text{d})^{197}\text{Pt}$
^{197}Au	98.5	$^{197}\text{Au}(\text{n},\gamma)^{198}\text{Au}$	0.9	$^{197}\text{Pt}(\beta^-)^{197}\text{Au}$	0.5	$^{197}\text{Au}(\gamma,\text{n})^{196}\text{Au}$
^{197}Hg	84.0	$^{196}\text{Hg}(\text{n},\gamma)^{197}\text{Hg}$	16.0	$^{199}\text{Hg}(\text{p},\text{t})^{197}\text{Hg}$		
^{198}Pt	54.5	$^{198}\text{Pt} - ^{197}\text{Au}_{1.005}$	45.5	$^{198}\text{Pt}(\text{p},\text{d})^{197}\text{Pt}$		
^{198}Au	65.5	$^{198}\text{Au}(\beta^-)^{198}\text{Hg}$	33.0	$^{198}\text{Au}(\text{n},\gamma)^{199}\text{Au}$	1.4	$^{197}\text{Au}(\text{n},\gamma)^{198}\text{Au}$
^{198}Hg	73.7	$^{198}\text{Hg}-u$	13.4	$^{200}\text{Hg} - ^{35}\text{Cl} - ^{198}\text{Hg} - ^{37}\text{Cl}$	12.7	$^{198}\text{Au}(\beta^-)^{198}\text{Hg}$
^{198}Po	60.5	$^{198}\text{Po} - ^{208}\text{Pb}_{.952}$	39.5	$^{198}\text{Po}(\alpha)^{194}\text{Pb}$		
^{199}Au	66.8	$^{198}\text{Au}(\text{n},\gamma)^{199}\text{Au}$	33.2	$^{199}\text{Au}(\beta^-)^{199}\text{Hg}$		
^{199}Hg	59.6	$^{199}\text{Hg} - \text{C}_2 - ^{35}\text{Cl}_5$	20.3	$^{199}\text{Hg}(\text{n},\gamma)^{200}\text{Hg}$	8.9	$^{199}\text{Au}(\beta^-)^{199}\text{Hg}$
^{199}Bi	38.7	$^{203}\text{At}(\alpha)^{199}\text{Bi}$	33.6	$^{199}\text{Bi}^m(\text{IT})^{199}\text{Bi}$	27.7	$^{199}\text{Bi}-u$
$^{199}\text{Bi}^m$	63.9	$^{199}\text{Bi}^m(\text{IT})^{199}\text{Bi}$	36.1	$^{199}\text{Bi}^m(\alpha)^{195}\text{Tl}$		
^{199}At	89.0	$^{199}\text{At}(\alpha)^{195}\text{Bi}$	11.0	$^{203}\text{Fr}(\alpha)^{199}\text{At}$		
^{200}Au	71.2	$^{200}\text{Au}-u$	28.8	$^{200}\text{Au}(\beta^-)^{200}\text{Hg}$		
$^{200}\text{Au}^m$	72.6	$^{200}\text{Au}^m-u$	27.4	$^{200}\text{Au}^m(\beta^-)^{200}\text{Hg}$		
^{200}Hg	77.7	$^{199}\text{Hg}(\text{n},\gamma)^{200}\text{Hg}$	10.7	$^{200}\text{Hg} - ^{35}\text{Cl} - ^{198}\text{Hg} - ^{37}\text{Cl}$	8.1	$^{204}\text{Hg} - ^{35}\text{Cl}_2 - ^{200}\text{Hg} - ^{37}\text{Cl}_2$
^{201}Au	100.0	$^{202}\text{Hg}(\text{d}, ^3\text{He})^{201}\text{Au} - ^{206}\text{Pb}(\text{)}^{205}\text{Tl}$				
^{201}Hg	49.1	$^{201}\text{Hg}(\text{n},\gamma)^{202}\text{Hg}$	36.3	$^{201}\text{Hg} - ^{35}\text{Cl} - ^{199}\text{Hg} - ^{37}\text{Cl}$	13.8	$^{201}\text{Hg} - ^{35}\text{Cl} - ^{199}\text{Hg} - ^{37}\text{Cl}$
^{201}Tl	90.8	$^{203}\text{Tl}(\text{p},\text{t})^{201}\text{Tl}$	9.2	$^{201}\text{Pb}(\beta^+)^{201}\text{Tl}$		
^{201}Pb	74.4	$^{205}\text{Po}(\alpha)^{201}\text{Pb}$	25.6	$^{201}\text{Pb}(\beta^+)^{201}\text{Tl}$		
^{202}Hg	47.3	$^{201}\text{Hg}(\text{n},\gamma)^{202}\text{Hg}$	26.8	$^{202}\text{Hg} - ^{35}\text{Cl} - ^{200}\text{Hg} - ^{37}\text{Cl}$	21.8	$^{204}\text{Hg} - ^{35}\text{Cl} - ^{202}\text{Hg} - ^{37}\text{Cl}$
^{202}Tl	50.8	$^{203}\text{Tl}(\text{p},\text{d})^{202}\text{Tl}$	49.2	$^{202}\text{Pb}(\epsilon)^{202}\text{Tl}$		
^{202}Pb	84.3	$^{202}\text{Pb} - ^{133}\text{Cs}_{1.519}$	13.9	$^{204}\text{Pb}(\text{p},\text{t})^{202}\text{Pb}$	1.7	$^{202}\text{Pb}(\epsilon)^{202}\text{Tl}$
^{202}Bi	69.6	$^{206}\text{At}(\alpha)^{202}\text{Bi}$	30.4	$^{202}\text{Bi}-u$		
^{203}Au	100.0	$^{204}\text{Hg}(\text{d}, ^3\text{He})^{203}\text{Au} - ^{206}\text{Pb}(\text{)}^{205}\text{Tl}$				

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
^{203}Hg	83.9	$^{203}\text{Hg}(\beta^-)^{203}\text{Tl}$	11.1	$^{204}\text{Hg}(\text{d,t})^{203}\text{Hg}$	5.1	$^{202}\text{Hg}(\text{d,p})^{203}\text{Hg}-^{204}\text{Hg}(\alpha)^{205}\text{Hg}$
^{203}Tl	76.4	$^{203}\text{Tl}(\text{n},\gamma)^{204}\text{Tl}$	10.6	$^{203}\text{Tl}^{35}\text{Cl}-^{201}\text{Hg}^{37}\text{Cl}$	7.9	$^{203}\text{Hg}(\beta^-)^{203}\text{Tl}$
^{203}Pb	52.1	$^{204}\text{Pb}(\text{p,d})^{203}\text{Pb}$	37.5	$^{207}\text{Po}(\alpha)^{203}\text{Pb}$	10.4	$^{203}\text{Pb}(\epsilon)^{203}\text{Tl}$
^{203}At	61.2	$^{203}\text{At}(\alpha)^{199}\text{Bi}$	20.6	$^{203}\text{At}-^{208}\text{Pb}_{.976}$	14.3	$^{203}\text{At-u}$
^{203}Fr	84.5	$^{203}\text{Fr}(\alpha)^{199}\text{At}$	15.5	$^{203}\text{Fr}-^{133}\text{Cs}_{1.526}$		
^{204}Hg	77.2	$^{204}\text{Hg-u}$	11.8	$^{204}\text{Hg}^{35}\text{Cl}_2-^{200}\text{Hg}^{37}\text{Cl}_2$	10.4	$^{204}\text{Hg}^{35}\text{Cl}-^{202}\text{Hg}^{37}\text{Cl}$
^{204}Tl	78.6	$^{204}\text{Tl}(\beta^-)^{204}\text{Pb}$	17.9	$^{203}\text{Tl}(\text{n},\gamma)^{204}\text{Tl}$	3.5	$^{205}\text{Tl}(\text{d,t})^{204}\text{Tl}$
^{204}Pb	79.7	$^{204}\text{Pb}(\text{n},\gamma)^{205}\text{Pb}$	18.6	$^{204}\text{Tl}(\beta^-)^{204}\text{Pb}$	1.3	$^{204}\text{Pb}(\text{p,t})^{202}\text{Pb}$
^{204}At	81.2	$^{204}\text{At-u}$	18.8	$^{208}\text{Fr}(\alpha)^{204}\text{At}$		
^{205}Hg	52.6	$^{204}\text{Hg}(\text{d,p})^{205}\text{Hg}$	47.4	$^{202}\text{Hg}(\text{d,p})^{203}\text{Hg}-^{204}\text{Hg}(\alpha)^{205}\text{Hg}$		
^{205}Tl	60.4	$^{205}\text{Tl}(\text{d,t})^{204}\text{Tl}$	14.3	$^{205}\text{Tl}^{35}\text{Cl}-^{203}\text{Tl}^{37}\text{Cl}$	12.5	$^{205}\text{Tl}(\beta^+)^{206}\text{Pb}$
^{205}Pb	79.2	$^{205}\text{Pb}(\text{n},\gamma)^{206}\text{Pb}$	19.3	$^{204}\text{Pb}(\text{n},\gamma)^{205}\text{Pb}$	1.5	$^{205}\text{Bi}(\beta^+)^{205}\text{Pb}$
^{205}Bi	50.8	$^{205}\text{Bi}(\beta^+)^{205}\text{Pb}$	49.2	$^{209}\text{At}(\alpha)^{205}\text{Bi}$		
^{205}Po	78.6	$^{205}\text{Po-u}$	21.4	$^{205}\text{Po}(\alpha)^{201}\text{Pb}$		
^{206}Tl	83.6	$^{205}\text{Tl}(\text{n},\gamma)^{206}\text{Tl}$	16.4	$^{210}\text{Bi}(\alpha)^{206}\text{Tl}$		
^{206}Pb	67.0	$^{206}\text{Pb}^{35}\text{Cl}_2-^{202}\text{Hg}^{37}\text{Cl}_2$	20.5	$^{205}\text{Pb}(\text{n},\gamma)^{206}\text{Pb}$	10.6	$^{206}\text{Pb}(\text{n},\gamma)^{207}\text{Pb}$
^{206}At	42.8	$^{210}\text{Fr}(\alpha)^{206}\text{At}$	29.1	$^{206}\text{At-u}$	28.2	$^{206}\text{At}(\alpha)^{202}\text{Bi}$
^{207}Tl	45.4	$^{207}\text{Tl}(\beta^-)^{207}\text{Pb}$	41.7	$^{211}\text{Bi}(\alpha)^{207}\text{Tl}$	12.9	$^{205}\text{Tl}(\text{t,p})^{207}\text{Tl}$
^{207}Pb	89.3	$^{206}\text{Pb}(\text{n},\gamma)^{207}\text{Pb}$	10.1	$^{207}\text{Pb}(\text{n},\gamma)^{208}\text{Pb}$	0.6	$^{207}\text{Tl}(\beta^-)^{207}\text{Pb}$
^{207}Bi	97.4	$^{209}\text{Bi}(\text{p,t})^{207}\text{Bi}$	2.6	$^{207}\text{Po}(\beta^+)^{207}\text{Bi}$		
^{207}Po	58.8	$^{207}\text{Po}(\alpha)^{203}\text{Pb}$	41.2	$^{207}\text{Po}(\beta^+)^{207}\text{Bi}$		
^{207}Fr	88.3	$^{207}\text{Fr}-^{133}\text{Cs}_{1.556}$	11.7	$^{207}\text{Fr}(\alpha)^{203}\text{At}$		
^{208}Pb	89.9	$^{207}\text{Pb}(\text{n},\gamma)^{208}\text{Pb}$	7.8	$^{212}\text{Po}(\alpha)^{208}\text{Pb}$	0.5	$^{183}\text{Hg}-^{208}\text{Pb}_{.880}$
^{208}Fr	95.8	$^{208}\text{Fr}-^{133}\text{Cs}_{1.564}$	4.2	$^{208}\text{Fr}(\alpha)^{204}\text{At}$		
^{209}Pb	87.0	$^{209}\text{Pb}(\beta^-)^{209}\text{Bi}$	11.1	$^{208}\text{Pb}(\text{d,p})^{209}\text{Pb}$	1.9	$^{213}\text{Po}(\alpha)^{209}\text{Pb}$
^{209}Bi	85.9	$^{209}\text{Bi}(\text{n},\gamma)^{210}\text{Bi}$	9.5	$^{209}\text{Bi}(\alpha)^{205}\text{Tl}$	4.3	$^{209}\text{Pb}(\beta^-)^{209}\text{Bi}$
^{209}At	53.2	$^{213}\text{Fr}(\alpha)^{209}\text{At}$	46.8	$^{209}\text{At}(\alpha)^{205}\text{Bi}$		
^{210}Pb	97.7	$^{210}\text{Pb}(\beta^-)^{210}\text{Bi}$	2.3	$^{214}\text{Po}(\alpha)^{210}\text{Pb}$		
^{210}Bi	50.7	$^{210}\text{Bi}(\beta^-)^{210}\text{Po}$	33.4	$^{210}\text{Bi}(\alpha)^{206}\text{Tl}$	14.0	$^{209}\text{Bi}(\text{n},\gamma)^{210}\text{Bi}$
^{210}Po	98.4	$^{210}\text{Po}(\alpha)^{206}\text{Pb}$	1.6	$^{210}\text{Bi}(\beta^-)^{210}\text{Po}$		
^{210}Fr	54.4	$^{210}\text{Fr}(\alpha)^{206}\text{At}$	45.6	$^{210}\text{Fr}-^{226}\text{Ra}_{.929}$		
^{211}Pb	94.4	$^{215}\text{Po}(\alpha)^{211}\text{Pb}$	5.6	$^{211}\text{Pb}(\beta^-)^{211}\text{Bi}$		
^{211}Bi	58.1	$^{211}\text{Bi}(\alpha)^{207}\text{Tl}$	41.9	$^{211}\text{Pb}(\beta^-)^{211}\text{Bi}$		
^{211}Fr	73.7	$^{211}\text{Fr}-^{133}\text{Cs}_{1.586}$	26.3	$^{211}\text{Fr}-^{226}\text{Ra}_{.934}$		
^{212}Pb	55.9	$^{216}\text{Po}(\alpha)^{212}\text{Pb}$	44.1	$^{212}\text{Pb}(\beta^-)^{212}\text{Bi}$		
^{212}Bi	71.7	$^{212}\text{Bi}(\beta^-)^{212}\text{Po}$	28.3	$^{212}\text{Pb}(\beta^-)^{212}\text{Bi}$		
^{212}Po	92.1	$^{212}\text{Po}(\alpha)^{208}\text{Pb}$	7.9	$^{212}\text{Bi}(\beta^-)^{212}\text{Po}$		
^{212}Fr	88.8	$^{212}\text{Fr}-^{133}\text{Cs}_{1.594}$	11.2	$^{212}\text{Fr}-^{226}\text{Ra}_{.938}$		
^{213}Bi	75.8	$^{217}\text{At}(\alpha)^{213}\text{Bi}$	24.2	$^{213}\text{Bi}(\beta^-)^{213}\text{Po}$		
^{213}Po	93.3	$^{213}\text{Po}(\alpha)^{209}\text{Pb}$	6.7	$^{213}\text{Bi}(\beta^-)^{213}\text{Po}$		
^{213}Fr	54.6	$^{213}\text{Fr}-^{133}\text{Cs}_{1.602}$	45.4	$^{213}\text{Fr}(\alpha)^{209}\text{At}$		
^{214}Pb	99.2	$^{218}\text{Po}(\alpha)^{214}\text{Pb}$	0.8	$^{214}\text{Pb}(\beta^-)^{214}\text{Bi}$		
^{214}Bi	69.0	$^{214}\text{Bi}(\beta^-)^{214}\text{Po}$	31.0	$^{214}\text{Pb}(\beta^-)^{214}\text{Bi}$		
^{214}Po	97.7	$^{214}\text{Po}(\alpha)^{210}\text{Pb}$	2.0	$^{218}\text{Rn}(\alpha)^{214}\text{Po}$	0.3	$^{214}\text{Bi}(\beta^-)^{214}\text{Po}$
^{215}Po	95.0	$^{219}\text{Rn}(\alpha)^{215}\text{Po}$	5.0	$^{215}\text{Po}(\alpha)^{211}\text{Pb}$		
^{216}Po	57.4	$^{220}\text{Rn}(\alpha)^{216}\text{Po}$	42.6	$^{216}\text{Po}(\alpha)^{212}\text{Pb}$		
^{217}At	76.9	$^{221}\text{Fr}(\alpha)^{217}\text{At}$	23.1	$^{217}\text{At}(\alpha)^{213}\text{Bi}$		
^{218}Po	99.2	$^{222}\text{Rn}(\alpha)^{218}\text{Po}$	0.8	$^{218}\text{Po}(\alpha)^{214}\text{Pb}$		
^{218}Rn	94.0	$^{218}\text{Rn}(\alpha)^{214}\text{Po}$	6.0	$^{222}\text{Ra}(\alpha)^{218}\text{Rn}$		
^{219}Rn	95.0	$^{223}\text{Ra}(\alpha)^{219}\text{Rn}$	5.0	$^{219}\text{Rn}(\alpha)^{215}\text{Po}$		
^{220}Rn	57.4	$^{224}\text{Ra}(\alpha)^{220}\text{Rn}$	42.6	$^{220}\text{Rn}(\alpha)^{216}\text{Po}$		
^{221}Fr	78.3	$^{225}\text{Ac}(\alpha)^{221}\text{Fr}$	21.7	$^{221}\text{Fr}(\alpha)^{217}\text{At}$		
^{222}Rn	99.2	$^{226}\text{Ra}(\alpha)^{222}\text{Rn}$	0.8	$^{222}\text{Rn}(\alpha)^{218}\text{Po}$		
^{222}Fr	82.2	$^{222}\text{Fr}-^{226}\text{Ra}_{.982}$	17.8	$^{226}\text{Ac}(\alpha)^{222}\text{Fr}$		
^{222}Ra	64.8	$^{222}\text{Ra}(\alpha)^{218}\text{Rn}$	35.2	$^{226}\text{Th}(\alpha)^{222}\text{Ra}$		

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
^{223}Rn	58.3	$^{223}\text{Rn} - ^{133}\text{Cs}_{1.677}$	41.7	$^{223}\text{Rn-u}$		
^{223}Ra	95.1	$^{227}\text{Th}(\alpha)^{223}\text{Ra}$	4.9	$^{223}\text{Ra}(\alpha)^{219}\text{Rn}$		
^{224}Rn	56.6	$^{224}\text{Rn-u}$	43.4	$^{224}\text{Rn} - ^{133}\text{Cs}_{1.684}$		
^{224}Ra	57.5	$^{228}\text{Th}(\alpha)^{224}\text{Ra}$	42.5	$^{224}\text{Ra}(\alpha)^{220}\text{Rn}$		
^{225}Rn	73.0	$^{225}\text{Rn-u}$	27.0	$^{225}\text{Rn} - ^{133}\text{Cs}_{1.692}$		
^{225}Fr	84.2	$^{225}\text{Fr-u}$	15.8	$^{225}\text{Fr}(\beta^-)^{225}\text{Ra}$		
^{225}Ra	94.2	$^{229}\text{Th}(\alpha)^{225}\text{Ra}$	5.0	$^{225}\text{Ra}(\beta^-)^{225}\text{Ac}$	0.8	$^{225}\text{Fr}(\beta^-)^{225}\text{Ra}$
^{225}Ac	59.4	$^{229}\text{Pa}(\alpha)^{225}\text{Ac}$	20.3	$^{225}\text{Ac}(\alpha)^{221}\text{Fr}$	20.3	$^{225}\text{Ra}(\beta^-)^{225}\text{Ac}$
^{226}Rn	56.2	$^{226}\text{Rn-u}$	43.8	$^{226}\text{Rn} - ^{133}\text{Cs}_{1.699}$		
^{226}Ra	97.4	$^{230}\text{Th}(\alpha)^{226}\text{Ra}$	0.8	$^{226}\text{Ra}(\alpha)^{222}\text{Rn}$	0.6	$^{211}\text{Fr} - ^{226}\text{Ra}_{.934}$
^{226}Ac	86.2	$^{230}\text{Pa}(\alpha)^{226}\text{Ac}$	13.6	$^{226}\text{Ac}(\beta^-)^{226}\text{Th}$	0.3	$^{226}\text{Ac}(\alpha)^{222}\text{Fr}$
^{226}Th	58.8	$^{226}\text{Th}(\alpha)^{222}\text{Ra}$	41.2	$^{226}\text{Ac}(\beta^-)^{226}\text{Th}$		
^{227}Rn	63.4	$^{227}\text{Rn} - ^{133}\text{Cs}_{1.707}$	36.6	$^{227}\text{Rn-u}$		
^{227}Ac	95.7	$^{231}\text{Pa}(\alpha)^{227}\text{Ac}$	4.3	$^{227}\text{Ac}(\beta^-)^{227}\text{Th}$		
^{227}Th	95.1	$^{227}\text{Ac}(\beta^-)^{227}\text{Th}$	4.9	$^{227}\text{Th}(\alpha)^{223}\text{Ra}$		
^{228}Rn	62.5	$^{228}\text{Rn} - ^{133}\text{Cs}_{1.714}$	37.5	$^{228}\text{Rn-u}$		
^{228}Th	56.7	$^{230}\text{Th}(\text{p,t})^{228}\text{Th} - ^{232}\text{Th}(\text{O})^{230}\text{Th}$	42.2	$^{228}\text{Th}(\alpha)^{224}\text{Ra}$	1.2	$^{232}\text{U}(\alpha)^{228}\text{Th}$
^{229}Ra	88.0	$^{229}\text{Ra} - ^{133}\text{Cs}_{1.722}$	12.0	$^{229}\text{Ra}(\beta^-)^{229}\text{Ac}$		
^{229}Ac	92.6	$^{229}\text{Ac-u}$	7.4	$^{229}\text{Ra}(\beta^-)^{229}\text{Ac}$		
^{229}Th	68.2	$^{233}\text{U}(\alpha)^{229}\text{Th}$	26.9	$^{230}\text{Th}(\text{d,t})^{229}\text{Th}$	4.9	$^{229}\text{Th}(\alpha)^{225}\text{Ra}$
^{229}Pa	86.6	$^{231}\text{Pa}(\text{p,t})^{229}\text{Pa}$	13.4	$^{229}\text{Pa}(\alpha)^{225}\text{Ac}$		
^{230}Fr	71.9	$^{230}\text{Fr-u}$	28.1	$^{230}\text{Fr} - ^{133}\text{Cs}_{1.729}$		
^{230}Th	59.2	$^{230}\text{Th}(\text{p,t})^{228}\text{Th} - ^{232}\text{Th}(\text{O})^{230}\text{Th}$	21.2	$^{234}\text{U}(\alpha)^{230}\text{Th}$	14.3	$^{230}\text{Th}(\text{n},\gamma)^{231}\text{Th}$
^{230}Pa	86.8	$^{230}\text{Pa}(\epsilon)^{230}\text{Th}$	13.2	$^{230}\text{Pa}(\alpha)^{226}\text{Ac}$		
^{231}Ra	66.2	$^{231}\text{Ra-u}$	33.8	$^{231}\text{Ra} - ^{133}\text{Cs}_{1.737}$		
^{231}Th	83.9	$^{230}\text{Th}(\text{n},\gamma)^{231}\text{Th}$	12.0	$^{235}\text{U}(\alpha)^{231}\text{Th}$	4.1	$^{231}\text{Th}(\beta^-)^{231}\text{Pa}$
^{231}Pa	50.7	$^{231}\text{Th}(\beta^-)^{231}\text{Pa}$	41.9	$^{235}\text{Np}(\alpha)^{231}\text{Pa}$	3.8	$^{231}\text{Pa}(\alpha)^{227}\text{Ac}$
^{232}Ra	57.1	$^{232}\text{Ra} - ^{133}\text{Cs}_{1.744}$	42.9	$^{232}\text{Ra-u}$		
^{232}Th	71.4	$^{236}\text{U}(\alpha)^{232}\text{Th}$	21.6	$\text{C}_{24}\text{H}_{16} - ^{232}\text{Th} \text{ } ^{37}\text{Cl} \text{ } ^{35}\text{Cl}$	17.5	$\text{C}_{18}\text{H}_{16} - ^{232}\text{Th}$
^{232}U	98.8	$^{232}\text{U}(\alpha)^{228}\text{Th}$	1.2	$^{236}\text{Pu}(\alpha)^{232}\text{U}$		
^{233}Th	93.3	$^{232}\text{Th}(\text{n},\gamma)^{233}\text{Th}$	6.7	$^{233}\text{Th}(\beta^-)^{233}\text{Pa}$		
^{233}Pa	77.8	$^{237}\text{Np}(\alpha)^{233}\text{Pa}$	13.0	$^{233}\text{Th}(\beta^-)^{233}\text{Pa}$	9.2	$^{233}\text{Pa}(\beta^-)^{233}\text{U}$
^{233}U	48.3	$^{233}\text{Pa}(\beta^-)^{233}\text{U}$	25.3	$^{233}\text{U}(\alpha)^{229}\text{Th}$	15.1	$^{237}\text{Pu}(\alpha)^{233}\text{U}$
^{234}U	49.3	$^{234}\text{U}(\text{n},\gamma)^{235}\text{U}$	36.0	$^{234}\text{U}(\alpha)^{230}\text{Th}$	14.3	$^{238}\text{Pu}(\alpha)^{234}\text{U}$
^{235}U	32.1	$^{234}\text{U}(\text{n},\gamma)^{235}\text{U}$	24.1	$^{239}\text{Pu}(\alpha)^{235}\text{U}$	22.2	$^{235}\text{U}(\text{n},\gamma)^{236}\text{U}$
^{235}Np	86.3	$^{235}\text{Np}(\epsilon)^{235}\text{U}$	13.7	$^{235}\text{Np}(\alpha)^{231}\text{Pa}$		
^{236}U	59.1	$^{240}\text{Pu}(\alpha)^{236}\text{U}$	31.7	$^{235}\text{U}(\text{n},\gamma)^{236}\text{U}$	8.4	$^{236}\text{U}(\alpha)^{232}\text{Th}$
^{236}Pu	98.8	$^{236}\text{Pu}(\alpha)^{232}\text{U}$	1.2	$^{240}\text{Cm}(\alpha)^{236}\text{Pu}$		
^{237}U	84.6	$^{236}\text{U}(\text{n},\gamma)^{237}\text{U}$	15.4	$^{241}\text{Pu}(\alpha)^{237}\text{U}$		
^{237}Np	97.8	$^{241}\text{Am}(\alpha)^{237}\text{Np}$	2.2	$^{237}\text{Np}(\alpha)^{233}\text{Pa}$		
^{237}Pu	94.1	$^{241}\text{Cm}(\alpha)^{237}\text{Pu}$	5.9	$^{237}\text{Pu}(\alpha)^{233}\text{U}$		
^{238}U	55.4	$^{242}\text{Pu}(\alpha)^{238}\text{U}$	33.3	$\text{C}_{24}\text{H}_{20} - ^{238}\text{U} \text{ } ^{35}\text{Cl}_2$	11.3	$\text{C}_{18}\text{H}_{22} - ^{238}\text{U}$
^{238}Pu	75.4	$^{238}\text{Pu}(\alpha)^{234}\text{U}$	23.8	$^{238}\text{Pu}(\text{n},\gamma)^{239}\text{Pu}$	0.8	$^{242}\text{Cm}(\alpha)^{238}\text{Pu}$
^{239}Np	98.0	$^{239}\text{Np}(\beta^-)^{239}\text{Pu}$	2.0	$^{243}\text{Am}(\alpha)^{239}\text{Np}$		
^{239}Pu	44.3	$^{239}\text{Pu}(\alpha)^{235}\text{U}$	41.2	$^{239}\text{Pu}(\text{n},\gamma)^{240}\text{Pu}$	14.2	$^{238}\text{Pu}(\text{n},\gamma)^{239}\text{Pu}$
^{240}U	96.4	$^{244}\text{Pu}(\alpha)^{240}\text{U}$	3.6	$^{240}\text{U}(\beta^-)^{240}\text{Np}^m$		
^{240}Np	67.6	$^{240}\text{Np}^m(\text{IT})^{240}\text{Np}$	32.4	$^{240}\text{Np}(\beta^-)^{240}\text{Pu}$		
$^{240}\text{Np}^m$	43.6	$^{240}\text{Np}^m(\beta^-)^{240}\text{Pu}$	40.9	$^{240}\text{U}(\beta^-)^{240}\text{Np}^m$	15.5	$^{240}\text{Np}^m(\text{IT})^{240}\text{Np}$
^{240}Pu	37.7	$^{240}\text{Pu}(\text{n},\gamma)^{241}\text{Pu}$	31.3	$^{239}\text{Pu}(\text{n},\gamma)^{240}\text{Pu}$	31.0	$^{240}\text{Pu}(\alpha)^{236}\text{U}$
^{240}Cm	98.8	$^{240}\text{Cm}(\alpha)^{236}\text{Pu}$	1.2	$^{244}\text{Cf}(\alpha)^{240}\text{Cm}$		
^{241}Pu	62.3	$^{240}\text{Pu}(\text{n},\gamma)^{241}\text{Pu}$	33.6	$^{241}\text{Pu}(\text{n},\gamma)^{242}\text{Pu}$	3.7	$^{241}\text{Pu}(\beta^-)^{241}\text{Am}$
^{241}Am	96.1	$^{241}\text{Pu}(\beta^-)^{241}\text{Am}$	2.1	$^{241}\text{Am}(\alpha)^{237}\text{Np}$	1.9	$^{241}\text{Cm}(\epsilon)^{241}\text{Am}$
^{241}Cm	93.0	$^{241}\text{Cm}(\epsilon)^{241}\text{Am}$	4.9	$^{241}\text{Cm}(\alpha)^{237}\text{Pu}$	2.1	$^{245}\text{Cf}(\alpha)^{241}\text{Cm}$
^{242}Pu	62.2	$^{241}\text{Pu}(\text{n},\gamma)^{242}\text{Pu}$	37.2	$^{242}\text{Pu}(\alpha)^{238}\text{U}$	0.5	$^{242}\text{Pu}(\text{n},\gamma)^{243}\text{Pu}$
^{242}Cm	99.2	$^{242}\text{Cm}(\alpha)^{238}\text{Pu}$	0.8	$^{246}\text{Cf}(\alpha)^{242}\text{Cm}$		

Table II. Influences on primary nuclei (continued, Explanation of Table on page 1673)

Nucleus	Infl.	Equation	Infl.	Equation	Infl.	Equation
^{243}Pu	76.1	$^{242}\text{Pu}(n,\gamma)^{243}\text{Pu}$	13.7	$^{243}\text{Pu}(\beta^-)^{243}\text{Am}$	7.7	$^{247}\text{Cm}(\alpha)^{243}\text{Pu}$
^{243}Am	96.4	$^{243}\text{Am}(\alpha)^{239}\text{Np}$	3.6	$^{243}\text{Pu}(\beta^-)^{243}\text{Am}$		
^{244}Pu	69.7	$^{244}\text{Pu}(d,t)^{243}\text{Pu}$	24.3	$^{248}\text{Cm}(\alpha)^{244}\text{Pu}$	3.4	$^{244}\text{Pu}(\alpha)^{240}\text{U}$
^{244}Cf	97.9	$^{244}\text{Cf}(\alpha)^{240}\text{Cm}$	2.1	$^{248}\text{Fm}(\alpha)^{244}\text{Cf}$		
^{245}Am	76.5	$^{249}\text{Bk}(\alpha)^{245}\text{Am}$	23.5	$^{245}\text{Am}(\beta^-)^{245}\text{Cm}$		
^{245}Cm	100.0	$^{245}\text{Cm}(\alpha)^{241}\text{Pu}$				
^{245}Cf	96.3	$^{245}\text{Cf}(\alpha)^{241}\text{Cm}$	3.7	$^{249}\text{Fm}(\alpha)^{245}\text{Cf}$		
^{246}Pu	54.1	$^{244}\text{Pu}(t,p)^{246}\text{Pu}$	45.9	$^{246}\text{Pu}(\beta^-)^{246}\text{Am}^m$		
$^{246}\text{Am}^m$	56.7	$^{246}\text{Am}^m(\beta^-)^{246}\text{Cm}$	43.3	$^{246}\text{Pu}(\beta^-)^{246}\text{Am}^m$		
^{246}Cm	98.9	$^{246}\text{Cm}(\alpha)^{242}\text{Pu}$	1.0	$^{246}\text{Cm}(d,p)^{247}\text{Cm}$	0.1	$^{246}\text{Am}^m(\beta^-)^{246}\text{Cm}$
^{246}Cf	98.9	$^{246}\text{Cf}(\alpha)^{242}\text{Cm}$	1.1	$^{250}\text{Fm}(\alpha)^{246}\text{Cf}$		
^{247}Cm	63.6	$^{247}\text{Cm}(\alpha)^{243}\text{Pu}$	24.4	$^{246}\text{Cm}(d,p)^{247}\text{Cm}$	12.0	$^{248}\text{Cm}(d,t)^{247}\text{Cm}$
^{248}Cm	75.7	$^{248}\text{Cm}(\alpha)^{244}\text{Pu}$	24.3	$^{248}\text{Cm}(d,t)^{247}\text{Cm}$		
^{248}Fm	76.6	$^{248}\text{Fm}(\alpha)^{244}\text{Cf}$	23.4	$^{252}\text{No}(\alpha)^{248}\text{Fm}$		
^{249}Bk	92.4	$^{249}\text{Bk}(\beta^-)^{249}\text{Cf}$	7.6	$^{249}\text{Bk}(\alpha)^{245}\text{Am}$		
^{249}Cf	98.5	$^{249}\text{Cf}(\alpha)^{245}\text{Cm}$	1.5	$^{249}\text{Bk}(\beta^-)^{249}\text{Cf}$		
^{249}Fm	76.2	$^{249}\text{Fm}(\alpha)^{245}\text{Cf}$	23.8	$^{253}\text{No}(\alpha)^{249}\text{Fm}$		
^{250}Fm	80.2	$^{250}\text{Fm}(\alpha)^{246}\text{Cf}$	19.8	$^{254}\text{No}(\alpha)^{250}\text{Fm}$		
^{252}No	69.0	$^{252}\text{No}(\alpha)^{248}\text{Fm}$	31.0	$^{252}\text{No}-^{133}\text{Cs}_{1.895}$		
^{253}No	66.8	$^{253}\text{No}(\alpha)^{249}\text{Fm}$	33.2	$^{253}\text{No}-^{133}\text{Cs}_{1.902}$		
^{254}No	54.8	$^{254}\text{No}(\alpha)^{250}\text{Fm}$	45.2	$^{254}\text{No}-^{133}\text{Cs}_{1.910}$		