

TABLE III (cont.)

1	2	3	4	5	6	7	8	9	10
Class	Z-Element-A	Sign Energy	Half-life Final State	Numbers	Configuration	log ft	Ref.	Footnotes	
Ab β	72-Hf-181	- 0.40	47d	m	109-73	p1/2-s1/2	7.2	M1	23
Aa β	74-W -185	- 0.43	73.2d	g	111-75	p3/2-d5/2	7.5	S1	24
Ab β	74-W -187	- 1.33	24.1h	g	30113-75	p3/2-d5/2	7.8	M1	24
Aa γ	75-Re-187	- 0.043	4x10 ¹² y	g	75-111	d5/2-h9/2	17.7	S1	25
Ab γ	78-Pt-199	- 1.8	31m	g	121-79	p3/2-d3/2	6.3	S1	
Aa β	79-Au-199	-(0.32)	3.3d	e	79-119	d3/2-p1/2	(5.8)	M1	
Aa γ	80-Hg-203	-(0.21)	43.5d	e	123-81	f5/2-s1/2	(6.4)	M1	26
Ab β	80-Hg-205	- 1.62	55m	g	125-81	p1/2-s1/2	5.4	S1	27
Aa β	82-Pb-209	- 0.68	3.32h	g	127-83	g9/2-h9/2	5.6	S1	27
Ab β	83-Bi-213	- 1.3	46m	g	96 83-129	h9/2-g9/2	6.0	S1	27

Footnotes to Table III

1. It cannot be decided, whether the 11 protons in Na²⁵ are in a D3/2 or d5/2 configuration.
2. It cannot be decided whether the 25 nucleon configurations in Ca⁴⁵, Ti⁴⁷, Cr⁴⁹, Mn⁵¹, Mn⁵³ are of the type F 5/2 or f 7/2.
3. There is no experimental evidence that the γ -rays in Sc⁴⁷, V⁴⁷ and Cr⁴⁹ are in series with the β -rays.
4. Co⁶¹ and Cu⁶¹ both go to Ni⁶¹ with no γ -rays reported and with ft values corresponding to allowed transitions. It is suggested that the facts are not completely known in this case. The table assigns an f5/2 orbit to the 33 neutrons in Ni⁶¹ so as to make the Co⁶¹ transition an allowed one; Cu⁶¹ would then be ℓ -forbidden with abnormally low ft value.
5. The series γ -ray reported for Zn⁶⁵ does not fit with the shell scheme. If it really exists it would constitute a serious difficulty.
6. The transition goes to the meta state of Ge⁷³. The spin of the ground state