



**A=152**  
NDS 58, 93(1989)  
NDS 79, 1(1996)(U)

Sp... (14600)

Sn... (4800)

0+  
**152**  
**56Ba**

Q<sub>β-</sub>(7500)

Sp... (11600)

Sn... (3800)

**152**  
**57La**

Q<sub>β-</sub>(9100)

Sp... (12100)

Sn... (5900)

0+ 1.4 s  
**152**  
**58Ce** β-

Q<sub>β-</sub>(4500)

(4-) 3.63 s  
**152**  
**59Pr** β-

Q<sub>β-</sub>(6400)

Sn... (4900)

Sp... 10590

Sn... 7270

Sp... 7600

Sn... 5940

Sp... 8662

Sn... 8257.7

Sn... 6306.72

Sp... 5601.1

Sn... 8590

Sp... 7343.1

Sn... 7160

Sp... 3820

Sn... 9437

Sp... 5784

Sn... 8020

Sp... 4120

0+ 10.3 s  
**152**  
**68Er** EC 10% α 90%

89.2% 50.0 s EC 161.8 s  
**152**  
**67Ho** EC 88% α 12% Q<sub>EC</sub>3109 Q<sub>α</sub>4934.4

Q<sub>EC</sub>6550 Q<sub>α</sub>4507.2

0+ 11.4 m  
**152**  
**60Nd** β-

Q<sub>β-</sub>1110

(8) 150+x β- 13.8 m  
4- 150 β- 7.52 m  
1+ 0 β- 4.12 m  
**152**  
**61Pm** β-

Q<sub>β-</sub>3500

8- 147.86 72% 96 m  
0- 45.5998 β- 9.3116 h  
3- 0 β- 13.537 y  
**152**  
**63Eu** EC 72.1% β- 27.9%

Q<sub>β-</sub>1818.8

Q<sub>EC</sub>1874.3

21.2% 4.2 m 17.5 h  
8+ 501.74 0  
2- 0  
**152**  
**65Tb** EC 21.2% EC 99.900% α 0.100%

Q<sub>EC</sub>3990

Q<sub>EC</sub>600

Q<sub>α</sub>3727

0+ 1.08×10<sup>14</sup> y  
**152**  
**64Gd** α

Q<sub>α</sub>2204.6

180 ms 444 μs 1959  
~0.5 s 25 ms 0  
**156**  
**71Lu** α >75% **156**  
**72Hf** α >81%

Q<sub>α</sub>5590

Q<sub>α</sub>6033

19 s 0+x  
2- 0  
**156**  
**69Tm** α 0.064% **156**  
**70Yb** α 10%

Q<sub>α</sub>4340

Q<sub>α</sub>4812

Sn... (11400)

Sn... (12800)

(5-,6-) 0.7 s  
EC **152**  
**71Lu**

Sn... (9100) p  
Sp... (2900) 15% Q<sub>EC</sub>(12500) Q<sub>p</sub>(500)  
0+ 3.04 s  
EC **152**  
**70Yb** 5.2 s 8.0 s Q<sub>EC</sub>5470

p  
Sp... (900)  
EC (9)+ 0+x  
(2)- 0  
**152**  
**69Tm** EC

Q<sub>EC</sub>(8600)

Sn... (10300)

Evaluator: A. Artna-Cohen

0+  
**152**  
**62Sm**