^{219}**Rn** α **decay (3.96 s)**   1999Li05,1976Bl13,1970Kr08

Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays

Legend

→ $I_\gamma < \ 2\% \times I_\gamma^{max}$
→ $I_\gamma < 10\% \times I_\gamma^{max}$
→ $I_\gamma > 10\% \times I_\gamma^{max}$
- - -→ γ Decay (Uncertain)

$5/2^+$ 0.0   3.96 s *1*

Q_α=6946.1 *3*   %α=100

$^{219}_{86}$Rn$_{133}$

	$E\alpha$	$I\alpha$	HF

576.6 0.00009
1073.7 0.00032
802.5 0.00032
671.9 0.00022
556.1 0.00005

1094.2   5744   0.00009   270
$(5/2^+)$ 1073.7   5764   0.00092   33

321.8 0.00009
891.1 0.00076
619.9 0.00032
489.3 0.00063
373.5 0.00025
877.2 0.00032

930   5900   ≈0.0001   ≈1426

835.3 0.0016
564.1 0.0015

891.1   5944   0.0020   107
877.2   5958   0.00032   770

835.32   6000   0.0031   123

732.8 0.00006
461.6 0.00016
330.8 0.00097
708.1 0.00032
436.9 0.00030

732.7   6100   0.0012   900
708.1   6124   0.00063   2200

676.66 0.0173
405.4 0.00025
383.1 0.00043

676.66   6158   0.018   105

608.3 0.0043

$(11/2^+,13/2^+)$ 608.30   6223   0.0043   850

517.60 M1(+E2) 0.049
224.0 [M1,E2] 0.0024

$7/2^+,9/2^+$ 517.60   6311   0.051   172

401.81 E2 7.0
130.60 M1+E2 0.7

$5/2^+$ 401.812   66 ps *7*   6425.0   7.5   3.4

293.56 M1 0.113
271.23 M1+E2 13.0

$(11/2)^+$ 293.56   6530   0.110   630
$7/2^+$ 271.228   195 ps *15*   6552.6   12.9   6.6

$9/2^+$ 0.0   1.781 ms *4*   6819.1   79.4   11.1

$^{215}_{84}$Po$_{131}$