



## 1 Decay Scheme

Po-212 is an extremely short-lived radionuclide populated via the beta decay of Bi-212 and the alpha decay of Rn-216. Alpha decay of Po-212 occurs directly to the ground state of Pb-208.

*Le polonium 212 se désintègre par émission alpha vers le niveau fondamental du plomb 208.*

## 2 Nuclear Data

$$T_{1/2}(^{212}\text{Po}) : 300 \quad (2) \quad 10^{-9} \text{ s}$$

$$Q^{\alpha}(^{212}\text{Po}) : 8954,12 \quad (11) \quad \text{keV}$$

### 2.1 $\alpha$ Transitions

	Energy keV	Probability $\times 100$	F
$\alpha_{0,0}$	8954,12 (11)	100	1

## 3 $\alpha$ Emissions

	Energy keV	Probability $\times 100$
$\alpha_{0,0}$	8785,17 (11)	100

## 4 Main Production Modes

Bi – 212( $\beta^-$ )Po – 212

Rn – 216( $\alpha$ )Po – 212

Bi – 209( $\alpha$ ,p)Po – 212

Pb – 210( $\alpha$ ,2n $\gamma$ )Po – 212

## 5 References

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