

^{126}Rh β^- decay 2013Wa24

| Type | Author | History | Citation | Literature Cutoff Date |
|-----------------|---------------------------------|---------|-------------------|------------------------|
| Full Evaluation | H. Iimura, J. Katakura, S. Ohya | | NDS 180, 1 (2022) | 1-Oct-2021 |

Parent: ^{126}Rh : E=0.0; $T_{1/2}$ =19 ms 3; $Q(\beta^-)$ =14590 SY; % β^- decay=100.0

2013Wa24: E=345 MeV/nucleon $^{238}\text{U}^{86+}$ beam incident on ^9Be target of 3 mm thickness. Identification of fission fragments was done by ΔE -tof-B ρ method using BigRIPS and ZeroDegree spectrometers at RIKEN. Separated fragments were deposited in highly segmented stopper WAS3ABi consisting of an array of eight DSSSDs. Besides particle detection, this array also detected β rays. Gamma rays were detected by EURICA spectrometer consisting of 12 Cluster HPGe detectors. Measured: gamma rays in coincidence with β rays detected within 100 ms after implantation of ^{126}Rh .

 ^{126}Pd Levels

| E(level) | J^π |
|----------|-------------------|
| 0.0 | 0 ⁺ |
| 693.3 | (2 ⁺) |
| 1481.0 | (4 ⁺) |
| 2023.4 | (5 ⁻) |

 $\gamma(^{126}\text{Pd})$

| E_γ | $E_i(\text{level})$ | J_i^π | E_f | J_f^π |
|------------|---------------------|-------------------|--------|-------------------|
| 542.4 | 2023.4 | (5 ⁻) | 1481.0 | (4 ⁺) |
| 693.3 | 693.3 | (2 ⁺) | 0.0 | 0 ⁺ |
| 787.7 | 1481.0 | (4 ⁺) | 693.3 | (2 ⁺) |

$^{126}\text{Rh} \beta^- \text{ decay}$ 2013Wa24Decay Scheme