²³⁸U(⁹Be,Xγ) **2011Ni01**

| History | | | |
|-----------------|----------------------------|---------------------|------------------------|
| Туре | Author | Citation | Literature Cutoff Date |
| Full Evaluation | S. Lalkovski, F. G. Kondev | NDS 124, 157 (2015) | 1-Aug-2014 |

2011Ni01: ¹¹²Nb nuclide produced in Be(²³⁸U,F) reactions at E=345 MeV/nucleon produced by the cascade operation of the RBIF complex of accelerators at RIKEN. Target=550 mg/cm². Identification of ¹¹²Nb made on the basis of magnetic rigidity, time-of-flight and energy loss. The separated nuclei were implanted in a nine-layer double-sided silicon-strip detector (DSSSD). Correlations were recorded between the heavy ions and β rays. The half-life of ¹¹²Nb isotope was measured from the correlated ion- β decay curves and maximum likelihood analysis technique. In the analysis of the decay curve, β -detection efficiency, background rate, daughter and granddaughter (including those populated in delayed neutron decays) half-lives, and β -delayed neutron emission probabilities were considered.

¹¹²Nb Levels

| E(level) | T _{1/2} | Comments |
|----------|------------------|--|
| 0.0 | 33 ms +9-6 | $T_{1/2}$: using maximum-likelihood analysis of HI- β (t) data in 2011Ni01. |