¹¹⁶Sn(⁶⁰Ni,⁶¹Ni) **2016Mo15**

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Full Evaluation Balraj Singh ENSDF 20-Jan-2020

One-neutron pickup channel.

2016Mo15: $E(^{116}Sn)=245$ MeV beam from XTU-Tandem accelerator at LNL-Legnaro. Measured particle and gamma spectra, (particle) γ -coin, using PRISMA magnetic spectrometer and AGATA array for γ rays. Deduced transfer probabilities for the one-neutron pickup channel. Comparison with theoretical calculations.

Only the 283γ was seen from the $1/2^-$ to $3/2^-$ g.s. The absence of the 67-keV transition from the $5/2^-$ state to the g.s. was due to the $600-\mu$ m thick Sn x-ray absorber placed in front of the Ge detectors.

⁶¹Ni Levels

E(level)
$$J^{\pi \dagger}$$
 0 $3/2^ 283$ $1/2^-$

† From the Adopted Levels.

$$\gamma$$
(61Ni)

$$\frac{{\rm E}_{\gamma}}{283} \quad \frac{{\rm E}_{i}({\rm level})}{283} \quad \frac{{\rm J}_{i}^{\pi}}{1/2^{-}} \quad \frac{{\rm E}_{f}}{0} \quad \frac{{\rm J}_{f}^{\pi}}{3/2^{-}}$$

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Level Scheme

