

<sup>98</sup>Mo(p,n)    **1976Fi04**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen, Balraj Singh		NDS 164, 1 (2020)	15-Feb-2020

Includes <sup>98</sup>Mo(p,n) GDR studies.

**1976Fi04:** E=4.0-4.4 MeV proton beams were produced from the Ohio University Tandem Van de Graaff. Targets were enriched <sup>98</sup>Mo (98.27%) with thicknesses of 0.25 mg/cm<sup>2</sup>. Neutrons were detected with two liquid scintillators. Measured neutron spectra by TOF method at 27.7° and 51.7° with FWHM=1.3 ns, flight-path=15.12 and 12.98 meters. Energy resolution (FWHM) appears to be ≈10 keV. **1976Fi04** report data primarily on <sup>98</sup>Mo(p,ny).

Others:

**1974Co27:** E=4.0-5.0 MeV. Measured Q value=-2458 10.

Giant-dipole resonance studies:

**1995Wa07:** E=26 MeV. Analysis of  $\sigma(\theta)$  data.

**1995Ma47:** E=25.6 MeV. Theoretical calculations of  $\sigma(\theta)$ .

**1995Ka51:** E=26 MeV. Analysis of  $\sigma$  data.

**1987Ku13:** E=25 MeV. Analysis of  $\sigma(\theta)$  data.

**1986Mo10:** E=25.6 MeV. Measured  $\sigma(\theta)$ .

**1985Ra11:** E=120 MeV. Deduced strength.

**1980St26:** E=45 MeV.

**1976Ma07, 1975Gr01, 1974Po11:** E=16-26 MeV. Measured  $\sigma(\theta)$ .

**1969Hi02:** E=11-14 MeV.

Cross section measurements:

**1985Fi01, 1979Fi07:** E=1.7-7 MeV.

**1982Tr03:** E=6-9 MeV. Measured  $\sigma(\theta)$ , time-of-flight method.

**1976HaZB:** measured total cross section.

**1957La06:** E(p)(threshold)=3.25 MeV.

**1955Bo97:** E=22 MeV.

All data are from **1976Fi04**.

<sup>98</sup>Tc Levels

E(level)	E(level)	E(level)	E(level)
0 <sup>†</sup>	191	332	485
69	208?	351	544
91	270	395	
104	311	424	
139	322	458	

<sup>†</sup> Very weak and uncertain peak.