

${}^{46}\text{Ti}({}^3\text{He}, {}^6\text{He})$  1977Mu03

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen <sup>#</sup>		NDS 126, 1 (2015)	31-Mar-2015

**1977Mu03** (also **1977MuZS**): E=70 MeV  ${}^3\text{He}$  beam was produced by the MSU cyclotron and incident on thin isotopically enriched carbon-backed metal foils.  ${}^6\text{He}$  particles were detected by a resistive-wire gas-proportional counter. Measured  $\sigma(\theta)$ . Deduced levels, mass excess, Q.

**1972Pr10**: E=65-75 MeV beams were produced from the MSU sector-focused cyclotron.  ${}^6\text{He}$  particles were analyzed and detected in the focal plane of an Enge split-pole magnetic spectrograph. Measured  $\sigma(E({}^6\text{He}))$ . Deduced mass.

Others: **1975Mu09**.

 ${}^{43}\text{Ti}$  Levels

E(level) <sup>†</sup>	J $\pi$ <sup>‡</sup>
0	(7/2 <sup>-</sup> )
319 6	(3/2 <sup>+</sup> )
475 10	
998 10	(1/2 <sup>+</sup> )
1160 10	
1470 10	
1800 15	
2250 10	
2438 9	
2990 15	

<sup>†</sup> From **1977Mu03**.

<sup>‡</sup> From similarity of  $\sigma(\theta)$  pattern with states of similar configuration in  ${}^{39}\text{Ca}$ ,  ${}^{47}\text{Cr}$ ,  ${}^{51}\text{Fe}$  and  ${}^{55}\text{Ni}$  (**1977Mu03**).