

$^1\text{H}(^{38}\text{S}, ^{38}\text{S}')$ 1997Ke07

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 152, 1 (2018)	30-Sep-2017

[1997Ke07](#) (also [1997Su05](#), [1997Su27](#), [1999Su05](#)): E=39 MeV/nucleon ^{38}S radioactive ion beam was produced by fragmentation of ^{40}Ar primary beam at E=85 MeV/nucleon impinging a 376 mg/cm^2 ^9Be target at NSCL. Fragments were separated by the A1200 separator. The secondary target was a 1.9 mg/cm^2 CH_2 . Projectile-like fragments were detected by a $\Delta\text{E-E}$ telescope of fast plastic scintillator and protons were detected by five $\Delta\text{E-E}$ telescopes of Si detectors. Measured $\sigma(\theta)$. Deduced β_2 parameter for 1292 level. For analysis see also [1999Ma63](#), [2000Bl25](#), [2001Kh17](#) for similar reactions.

[2007Ot04](#): E=62 MeV/nucleon ^{38}S was produced by fragmentation of ^{40}Ar beam at 95 MeV/nucleon with ^9Be target at RIKEN facility. Fragments were separated by the RIPS separator. The secondary target was 0.4 mg/cm^2 CH_2 . Scattered particles were detected with a recoil spectrometer. Measured $\sigma(\theta)$. Data for isoscalar giant monopole resonance (ISGMR) is given but no direct evidence is derived.

Other: [2003La13](#).

[Additional information 1](#).

 ^{38}S Levels

E(level)	J^π [†]	Comments
0	0^+	
1292	2^+	$\beta_2=0.35$ 4 (1997Ke07)

[†] From Adopted Levels.