³¹P(n,p) **1999Se01**

History				
Туре	Author	Citation	Literature Cutoff Date	
Full Evaluation	Jun Chen and Balraj Singh	NDS 184, 29 (2022)	24-Jun-2022	

1999Se01: E=198 MeV neutron beam at TRIUMF. Protons momentum was analyzed in SASP Quadrupole-Dipole-Dipole magnetic spectrometer. Drift chambers, segmented and monoliths scintillators for measuring the differential cross section at angles 0°-30°. Extracted Gamow-Teller strength distribution and analyzed it with a multipole decomposition. Authors give measured double differential cross sections for up to 27.0 MeV excitation energy in steps of 1 MeV, and 0-1° angular-bin.

All data are from 1999Se01.

E(level)	Comments
0	B(GT)<0.10.
	$d^2\sigma/d\Omega dE=0.36$ mb/sr MeV.
750	B(GT)=0.26 6.
	$d^2\sigma/d\Omega dE=1.35$ mb/sr MeV for 1 MeV excitation energy.
2320	B(GT)=0.18 3.
	$d^2\sigma/d\Omega dE=0.88$ mb/sr MeV for 2 MeV excitation energy.
5000	E(level): authors clearly state the 5 MeV peak they see is several unresolved states.
	B(GT)=0.88 13.
	$d^2\sigma/d\Omega dE=2.06$ mb/sr MeV for 5 MeV excitation energy.