^{55}Mn(p,n) IAR 1978Vi03,1968La09,1967Co13

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Huo Junde	NDS 109, 787 (2008)	30-Apr-2007

1978Vi03: E=1.35-5.42 MeV; natural target (100% ^{55}Mn, other metallic impurities≈20 ppm); 4π geometry flat response neutron counter.
1968La09: E=94 MeV; target thickness: 0.181 f/cm^2; neutron spectrum measured using tof facilities; measured σ(E(n),θ).
1967Co13: E=13 MeV; target (100% ^{55}Mn, 0.8 mg/cm^2); NE213 liquid scintillator; measured σ(E(n)).
Other: 1967Go14.

^{55}Fe Levels

E(level)[†]	S	Comments
10728.4 *11*	0.12	Γ_p=7.6 eV *2* (1978Vi03) E(level): E(p)=1543 (1978Vi03). S: from fig. 5 in 1978Vi03, radius parameter=1.25 fm, diffuseness parameter=0.65 fm. ΔE(Coul.)=8641 keV *20* in ^{55}Mn-^{55}Fe pair (1967Co13).

[†] Value is calculated by evaluator using E(level)=0.982×E(p)+S(p), where E(p) is the proton energy at resonance and S(p)=9213.0 *11* from 2003Au03.