

$^{55}\text{Mn}(\text{p,pn})$ 2010Ch15

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yang Dong, Huo Junde		NDS 121, 1 (2014)	20-Jun-2014

E=33 MeV. Recoiling ions in the ion guide were efficiently thermalized and extracted using a helium buffer gas and sextupole ion guide. Mass-analyzed ensembles were then cooled and bunched in an RF quadrupole trap the axis of which was illuminated by 230.5005 nm laser. The magnetic and quadrupole moments of ^{55}Mn , $\mu=+3.46871790$ μN and $Q=+0.32$ I , were used as a calibration. Laser spectroscopy technique.

 ^{54}Mn Levels

E(level)	J^π [†]	$T_{1/2}$ [†]	Comments
0.0	3^+	312.20 d 20	$\mu=+3.306$ I (2010Ch15); $Q=+0.37$ I (2010Ch15) $\Delta\langle r^2 \rangle(^{55}\text{Mn}, ^{54}\text{Mn})=-0.165$ fm^2 7 (stat) (2010Ch15). The syst uncertainty is approximately 15 %.

[†] From Adopted Levels.