^{9}Be(^{15}N,^{13}B) 2004Na38

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu and J. E. Purcell	NDS 198,1 (2024)	1-Aug-2024

2004Na37, 2004Na38: ^{9}Be(^{15}N,^{13}B): ^{13}B ions were produced by fragmentation at the HIMAC accelerator in Chiba Japan. The ions were collected at θ=1.5° and implanted into a TiO_2 crystal placed in an external magnetic field to maintain polarization. Analyzed β asymmetry and deduced magnetic moment μ=3.1778 μ_N *5* with Knight shift correction. The quadrupole moment was determined as Q=+36.6 mb *8* (with respect to ^{12}B (2004Na46)). The allignment correlation term was also studied.

2004Na47: ^{9}Be(^{15}N,^{13}B), measured momentum dependences of the nuclear spin polarization and spin alignment.

^{13}B Levels

E(level)	$T_{1/2}$	Comments
0	17.36 ms	μ=3.1778 *5*; Q=+0.0366 *8* μ,Q: From (2004Na38).