

Coulomb excitation [1981Be54](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja, E. A. Mccutchan		NDS 121, 695 (2014)	30-Sep-2013

[1981Be54](#): ^{243}Am were bombarded with 17 MeV ^4He ions from the Oak Ridge EN Tandem Van de Graaff. Elastically and inelastically scattered α 's were detected with a split-pole magnetic spectrometer. Cross sections at $\theta=150^\circ$ were measured, and excitation probabilities relative to the elastic scattering peak were determined.

 ^{243}Am Levels

E(level) [†]	J^π [‡]	Comments
0.0	$5/2^-$	Q=4.29 3 based on intrinsic quadrupole moment of 12.02 9 deduced for the 42.4- and 96.4-keV levels (1981Be54).
42.20 22	$7/2^-$	B(E2) \uparrow =6.89 10 Intrinsic quadrupole moment=12.06 (1981Be54).
96.4 4	$9/2^-$	B(E2) \uparrow =2.38 4 Intrinsic quadrupole moment=11.98 (1981Be54).
162.3 10	$11/2^-$	
238 1	$13/2^-$	

[†] The energies of $7/2^-$ and $9/2^-$ states are from Adopted Levels, others were measured by [1981Be54](#).

[‡] From Adopted Levels.