

## nuclear quadrupole moment (spectroscopic)

A parameter which describes the effective shape of the equivalent ellipsoid of the nuclear charge distribution,  $Q > 0$  for prolate (e.g.  $^{57}\text{Fe}$ ,  $^{197}\text{Au}$ );  $Q < 0$  for oblate (e.g.  $^{119}\text{Sn}$ ,  $^{129}\text{I}$ ) nuclei.

**Source:**

PAC, 1976, 45, 211 (*Nomenclature and Conventions for Reporting Mossbauer Spectroscopic Data*) on page 214