
U(p,X) 2010Vi07

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	C. D. Nesaraja	NDS 115, 1 (2014)	31-Jul-2013

[2010Vi07](#): ^{69}Cu produced at ISOLDE-CERN facility by 1.4 GeV proton induced fission of uranium carbide target. Resonance Ionization laser ion source (RILIS) used to ionize the atoms followed by acceleration, high-resolution isotope separation (HRS), and gas cooled Paul trap ISCOOL. Measured hyperfine structure. Deduced spin, magnetic dipole moment and electric quadrupole moment of the ground state using high-resolution collinear laser spectroscopic technique. Comparison with large-scale shell-model calculations starting from ^{56}Ni core using effective shell model interactions.

 ^{69}Cu Levels

<u>E(level)</u>	<u>Jπ</u>	<u>Comments</u>
0.0	3/2 ⁻	$\mu=+2.8383$ 10 (2010Vi07) $Q=-0.147$ 16 (2010Vi07) J^π : measured from hyperfine spectra, parity from comparison of level energies. Dominant $\pi 2p_{3/2}$ configuration.