

$^{208}\text{Pb}(^{52}\text{Cr},\text{N})$ 2009Fo02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 114, 1041 (2013)	1-Aug-2011

Additional information 1.

^{52}Cr beam produced by 88-Inch Cyclotron at the Lawrence Berkeley Laboratory at E=250-267 MeV. Particles were detected using the Berkeley Gas Separator and a detector array consisting of 48 vertically position-sensitive strips. Measured half-lives, branching ratios, and production cross sections.

 ^{259}Sg Levels

E(level)	$T_{1/2}$	Comments
0	0.32 s +8-6	<p>$\% \alpha \approx 96$ (2009Fo02); $\% \text{SF} \leq 8.6$ (2009Fo02); $\% \epsilon + \% \beta^+ \leq 13$ (2009Fo02)</p> <p>For J^π assignment see Adopted Levels.</p> <p>$T_{1/2}$: measured in 2009Fo02 from α decay of 25 decay chains.</p> <p>$\sigma = 0.23$ nb +14-10 at E=254.0 MeV, with 6 events.</p> <p>$\sigma = 0.32$ nb +11-10, combined for E=257.8, 256.9 MeV, with 16 events.</p> <p>Eα=9593 46 from 14 events. Remaining α energies were in the 9.00-9.47 MeV range. For a complete α spectrum, consult authors' submission as Electronic Physics Auxiliary Publication Service (EPAPS), American Institute of Physics, http://www.aip.org/pubservs/epaps.html, EPAPS document.</p>