

Abstract Submitted
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Mass determination of the lowest $T = 2$ state in ^{32}S SMARAJIT TRIAMBAK, ALEJANDRO GARCIA, GREGORY HODGES, ERIC ADENBERGER, ERIK SWANSON, SETH HOEDL, SKYKILO SJUE, ANNE SAL-LASKA, CENPA, UNIVERSITY OF WASHINGTON TEAM¹ — We present data of a recent mass determination of the lowest $T = 2$ state in ^{32}S ($E_x \approx 12$ MeV) with an uncertainty of ≈ 0.3 keV using the $^{31}\text{P}(p, \gamma)$ reaction. The state of interest was populated using the resonance at $E_p = 3285$ keV and the decaying gammas of energies ≈ 8124 keV and 3923 keV were detected using HPGe detectors at $\pm 90^\circ$ and 0° to the incident beam. Systematic effects and implications to the Isobaric Multiplet Mass Equation for the $A = 32$ multiplet will be discussed.

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