

Abstract Submitted
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Inverse-kinematics proton scattering by $^{50,52}\text{Ca}$ ¹ L.A. RILEY, M.L. AGIORGOUSIS, F.G. DEVONE, M.T. GLOWACKI, B.V. SADLER, Department of Physics and Astronomy, Ursinus College, P.D. COTTLE, K.W. KEMPER, D.M. MCPHERSON, Department of Physics, Florida State University, T.R. BAUGHER, D. BAZIN, M. BOWRY, A. GADE, E.M. LUNDERBERG, S. NOJI, M. SCOTT, D. WEISSHAAR, R.G.T. ZEGERS, National Superconducting Cyclotron Laboratory, Michigan State University — The deformation lengths of low-lying collective states of $^{52,50}\text{Ca}$ have been measured via inverse-kinematics proton scattering. A thick liquid hydrogen target was used along with the GRETINA array at the National Superconducting Cyclotron Laboratory. The measured deformation length of the first 2^+ state of ^{50}Ca has been combined with the existing lifetime measurement [1] to disentangle the relative proton and neutron contributions to the excitation. Preliminary results will be discussed.

[1] D. Montanari et al., Phys. Rev. C 85, 044301 (2012).

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