

Abstract Submitted
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Beam target chamber for studying screening potentials in fusion reactions. JOSEPH D HALL, JOHN E ELLSWORTH, Brigham Young University Physics and Astronomy — The role electron screening plays in nuclear reactions in condensed matter has been studied for decades. Though the experimental results of cross section enhancements vary, they are consistently greater than expected, for reasons yet to be determined. Presented here is an accelerator test facility for exploring such reactions. It consists of a target chamber coupled to a deposition chamber, allowing materials to be formed and tested without breaking vacuum. The target chamber is fitted with a delta-E, E charged particle telescope and a neutron spectrometer.

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