

Abstract Submitted  
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**The Compact Accelerator System for Performing Astrophysical Research Underground - CASPAR** DANIEL ROBERTSON, MANOEL COUDER, University of Notre Dame, UWE GREIFE, Colorado School of Mines, DOUG WELLS, South Dakota School of Mines and Technology, MICHAEL WIESCHER, University of Notre Dame, CASPAR COLLABORATION — An accelerator laboratory (CASPAR) to be installed at the Sanford Underground Research Facility (SURF) is being constructed by a collaboration lead by South Dakota School of Mines and Technology. The study of alpha induced reactions of astrophysical interest in a quasi-background free environment is the goal of the laboratory. Specifically, neutron producing reactions for the s-process will be investigated. This process is responsible for the nucleosynthesis of half of the the elements heavier than iron. An outline of CASPAR, its timeline and scientific goals will be presented.

Daniel Robertson  
University of Notre Dame

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