

Abstract Submitted
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Nuclear Fragmentation (I): Abrasion Cross Sections for Abrasion-Ablation Model WILLIAM FORD, University of Tennessee, CHARLES WERNETH, NASA Langley Research Center, KHIN MAUNG, U. of Southern Mississippi, WOUTER DEWET, LAWRENCE TOWNSEND, University of Tennessee — In order to understand the radiation dose delivered to astronauts behind shielding, accurate nuclear fragmentation cross sections are required as input to transport codes. The fragmentation process can be divided into two steps; a fast step, abrasion, and a slow evaporation step, ablation. This talk will focus on the abrasion cross section which can be calculated by the Eikonal phase function. We present a calculation for the abrasion cross sections based on an optical potential model derived in a multiple scattering series. Preliminary results will be presented.

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