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Evaluation of a Semiempirical Nuclear Fragmentation Database

RYAN NORMAN, Worcester Polytechnic Institute, STEVE BLATTNIG, NASA Langley Research Center, JOHN NORBURY, University of Southern Mississippi — The semiempirical nuclear abrasion-ablation model NUCFRG2 has been updated with more precise absorption cross sections, the addition of alpha cluster knockout for oxygen, and corrected neutron and proton production from electromagnetic dissociation. In this talk, we present a comparison of the model cross sections to newly available experimental fragmentation and charge-changing cross sections and give a discussion of the results.

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