

Abstract Submitted  
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**Parameterization for light ion production from electromagnetic dissociation** JOHN NORBURY, NASA — Light ion (hydrogen and helium isotopes) production from relativistic nucleus-nucleus collisions is important in space radiation protection problems, when galactic cosmic rays interact with spacecraft. In fact, for thick spacecraft shields, such as the International Space Station, light ion and neutron production can dominate the contribution to dose equivalent. Both strong and electromagnetic interactions can contribute to light ion production. The present work extends a previous parameterization of electromagnetically produced light ions, so that particle branching ratios are described more realistically.

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