

Abstract Submitted  
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**Production of projectile-like-fragments with light systems in mass asymmetric, intermediate energy reactions** MICHAEL QUINLAN, IWONA PAWELCZAK, JAN TÖKE, Department of Chemistry, University of Rochester, Rochester NY, UDO SCHRÖDER, Departments of Chemistry and Physics, University of Rochester, Rochester NY, CHIMERA COLLABORATION — The reactions  $^{40,48}\text{Ca} + ^{112,124}\text{Sn}$  at a bombarding energy of 45 MeV/A were studied with the  $4\pi$  charged particle detector array, CHIMERA, at the Laboratori Nazionali del Sud in Catania, Italy. Measured observables were the charged particle multiplicities, their individual energy, charge, and in some cases, isotopic identity. Of particular interest is the production of intermediate mass fragments and their correlations with projectile-like fragments (PLFs) formed in the reaction. Data concerning the production of PLFs will be presented; specifically their charge, energy, and angular distributions. The reaction mechanism and isotopic effects will be discussed.

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