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Breakup of 170 MeV ^{17}F by ^{208}Pb J.F. LIANG, J.R. BEENE, A. GALINDO-URIBARRI, J. GOMEZ DEL CAMPO, C.J. GROSS, M.L. HALBERT, P.E. MUELLER, D. SHAPIRA, D.W. STRACENER, R.L. VARNER, Physics Division, Oak Ridge National Laboratory, USA[1], H. ESBENSEN, Physics Division, Argonne National Laboratory[2], I.J. THOMPSON, Department of Physics, University of Surrey, UK — Angular distributions of reaction products from 170 MeV ^{17}F on ^{208}Pb were measured with a ΔE-E telescope which consists of a large area surface barrier detector and a double-sided Si strip detector. A large yield of oxygen was observed near $\theta_{\rm lab} = 36°$. It is reproduced fairly well by a calculation of the (^{17}F,^{16}O) breakup, which is dominated by one-proton stripping reactions. The discrepancy between our previous coincidence measurement and theoretical predictions was resolved by including core absorption in the present calculation.

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Junjien Liang
liang@mail.phy.ornl.gov
Physics Division, Oak Ridge National Laboratory
Member ID: LI042361

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