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**Transfer, breakup, and elastic scattering in 170 MeV $^{17}$F+$^{208}$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[1], H. ESBENSEN, Physics Division, Argonne National Laboratory[2] — Angular distributions of reaction products from 170 MeV $^{17}$F+$^{208}$Pb were measured near the grazing angle. The reaction products were identified by an E-$\Delta$E telescope consisting of a large area Si detector and a double sided strip detector. The peak of the angular distribution for C and N is at the grazing angle which is characteristic of transfer reactions. Contribution from breakup of $^{17}$F into $^{16}$O and p causes the peak of the angular distribution for O to shift forward. Optical model analysis of the elastic scattering data will be presented and model calculations of breakup and transfer will be discussed.

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