Abstract Submitted
for the APR09 Meeting of
The American Physical Society

Mid-peripheral collisions around the Fermi energy: comparison with an event generator[1] SYLVIE HUDAN, A.B. MCINTOSH, Z. GOSSER, C. METELKO, M. RUDOLPH, R. YANEZ, R. DE SOUZA, Dept of Chemistry and IUCF, Indiana University, A. CHBIHI, GANIL, M. FAMIANO, Western Michigan University, M.O. FREGEAU, J. GAUTHIER, J. MOISAN, R. ROY, Universite Laval, S. BIANCHIN, C. SCHWARZ, W. TRAUTMANN, GSI, D. DURAND, LPC Caen — The reactions ^{124}Xe+^{112,124}Sn at E/A=50MeV have been recently measured. For mid-peripheral collisions, the projectile-like-fragment has been measured in coincidence with emitted particles (charged particles and neutrons). Experimental data will be compared to those obtained by the event generator Elie[1]. This two-step event generator consists of an entrance channel phase using a random process to determine the initial partition; and of kinematic propagation and secondary decay as the second phase. Experimental and generated energy distributions, angular distributions, and Z distributions of charged products will be examined. Yields of isotopically resolved fragments will be studied, including the effect of the target N/Z. [1] Elie: an event generator for nuclear reactions, Dominique Durand, arXiv:0803.2159

[1]Supported by U.S. DOE Grant No. DE.FG02-88ER.40404

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Date submitted: 09 Jan 2009 Electronic form version 1.4