

Meeting: 1000, Albuquerque, New Mexico, SS 11A, Special Session on Nonlinear Partial Differential Equations Applied to Materials Science

1000-35-124 **Sylvia Serfaty*** (serfaty@cims.nyu.edu), Courant Institute, New York University, 251 Mercer st, New York, NY 10012. *Vortices in the Ginzburg-Landau model of superconductivity.*

We will present various results obtained jointly with E. Sandier, on the analysis of vortices for the Ginzburg-Landau model of superconductors submitted to an applied magnetic field, in static situations, and possibly dynamics. (Received August 21, 2004)