

Meeting: 1001, Evanston, Illinois, SS 4A, Special Session on Fluid Dynamics, Diffusion and Reaction

1001-35-174 **Mark Freidlin*** (mif@math.umd.edu), Department of Mathematics, University of Maryland,
College Park, MD 20742-4015. *On Reaction-Convection in Incompressible 3D-Fluid: a
Homogenization Problem.*

Reaction-convection-diffusion in incompressible 3D-flows, which can be considered as perturbations of a planar motion, is studied. Large time evolution of the area occupied by the ingredient is described. (Received August 24, 2004)