Analysis Seminar Thursday November 29, 2018

Speaker Tulin Kaman

Title: *Numerical algorithms for compressible turbulent mixing*

Abstract: Turbulent mixing due to the hydrodynamical instabilities occurs in a wide range of scientific and engineering problems such as gravitationally induced mixing in oceanography, inertial confinement fusion and supernovae explosions. In this talk, we will introduce the models and numerical algorithms, Large Eddy Simulation with subgrid scale models with Front Tracking, used for investigating the behavior of the mixing layer driven by the instabilities at the interface between two fluids.