

MAR06-2005-002263

Abstract for an Invited Paper
for the MAR06 Meeting of
the American Physical Society

Immersed boundaries and particles

GEORGES-HENRI COTTET, Universite Joseph Fourier

This talk will present ongoing works in our group dealing with particle simulation of complex flows. We will show some non conventional particle methods to simulate incompressible elasticity and fluid-structure interactions. We will also show how particle methods in these fields, as well as for more conventional advection dominated physics, can lead to new ideas for Eulerian schemes.