Abstract Submitted
for the DFD12 Meeting of
The American Physical Society

Particle Gradient-Augmented Level Set in Multiphase Flow Problems OLIVIER MERCIER, JEAN-CHRISTOPHE NAVE, McGill University, RODOLFO RUBEN ROSALES, MIT, BENJAMIN SEIBOLD, Temple University — The goal of this presentation is to present the particle gradient-augmented level set method in the context of multiphase flows. Specifically, we will show how topological changes can be taken into account by a modification of the original method. Finally, we will present applications to multi-phase Navier-Stokes by combining it with the ghost fluid method.

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Date submitted: 06 Aug 2012   Electronic form version 1.4