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Level-Set Methodology on Adaptive Octree Grids FREDERIC GIBOU, UCSB, ARTHUR GUITTET, Google, MOHAMMAD MIRZADEH, MIT, MAXIME THEILLARD, UC Merced — Numerical simulations of interfacial problems in fluids require a methodology capable of tracking surfaces that can undergo changes in topology and capable to imposing jump boundary conditions in a sharp manner. In this talk, we will discuss recent advances in the level-set framework, in particular one that is based on adaptive grids.

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