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Moving Mesh Methods for Computational Fluid Dynamics

We shall discuss the class of adaptive grid methods often called moving mesh methods for solving time dependent PDE's. These methods involve the solution of the underlying PDE for the physical solution in conjunction with a so-called moving mesh PDE for the mesh itself.

This talk will describe some recent developments on moving mesh methods. In particular, we review their applications to computational fluid dynamics. The following website contains some materials related to this talk:

http://www.math.hkbu.edu.hk/~ttang/MMmovie