Jingtang Ma
Abstract Cascading Multigrid Methods in Besov Spaces

Department of Mathematics and Statistics
Memorial University of Newfoundland
St John's
NL
Canada A1C 5S7
jingtang@math.mun.ca
Hermann Brunner

In this paper, the general framework of cascading multigrid methods is studied. As an application, the cascading multigrid methods are applied to the heat equation with mild regularity in Besov spaces. Furthermore we analyze a cascading multigrid method for the interior penalty discontinuous Galerkin method.