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A posteriori error analysis for a continuous space-time finite element method for a hyperbolic integro-differential equation

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(Submitted on 1 May 2012 (v1), last revised 15 Nov 2012 (this version, v2))

An integro-differential equation of hyperbolic type, with mixed boundary conditions, is considered. A continuous space-time finite element method of degree one is formulated. A posteriori error representations based on spacetime cells is presented such that it can be used for adaptive strategies based on dual weighted residual methods. A posteriori error estimates based on weighted global projections and local projections are also proved.

Comments: 30 pages

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