JOHANNES KEPLER UNIVERSITY LINZ

Johannes Kepler Universität Linz
Institut für Numerische Mathematik

o.Univ.-Prof. Dr. Ulrich Langer

Talk announcement (ZOOM)

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(DK)

Tuesday, June 23, 2020
15:30, via ZOOM
(Meeting-ID: 946 5610 9757, Password: 230596)

Numerical Studies Of Space-time Multilevel Methods

In the first part of this talk we will present and discussnumerical results for a set of multilevel methods forpreconditioning all-at-once space-time finite elementdiscretizations. In particular we are interested in therobustness with respect to uniform mesh refinement, as well asscalability in a massively parallel setting.In the second part, we present new results regardingadaptive space-time finite element methods on structureddecompositions, using anisotropic refinement strategies,applied to a space-time extension of Kellogg's problem.