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Computational Mathematics Seminar Series

A Posteriori Error Estimates of Discontinuous Galerkin Methods for Elliptic Obstacle Problems**Kamana Porwal, LSU Department of Mathematics and CCT**

Postdoctoral Researcher

Digital Media Center 1008B
August 26, 2014 - 03:30 pm**Abstract:**

In this talk I will present a posteriori analysis for various discontinuous Galerkin (DG) methods for the obstacle problem. A nonlinear smoothing function mapping from DG finite element space to CG finite element space plays an important role in the analysis. Using a key property of DG methods we have performed analysis in a unified framework. We have further simplified a posteriori error estimator with a mild assumption on the trace of the obstacle. Finally, numerical results demonstrating the performance of the estimator are presented.

Speaker's Bio:

Postdoc at CCT, 2014.

PhD (2014) from Indian Institute of Science Bangalore, India

This lecture has a reception @ 03:00 pm