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**Cody S Lorton\*** (clorton@uwf.edu), Pensacola, FL 32514. *A Posteriori Error Estimates*

*Applied to Unconditionally Stable IPDG Methods for the Helmholtz Equation.* Preliminary report.

Unconditionally stable interior penalty discontinuous Galerkin (IPDG) methods for the Helmholtz equation were developed and analyzed by X. Feng and H. Wu (2009, 2014). In this talk, we discuss the performance of residual-based a posteriori error estimates applied to this class of IPDG methods. Numerical experiments are included to demonstrate key features. (Received August 26, 2016)