

1077-35-2369

**Matthias Eller\*** ([mme4@georgetown.edu](mailto:mme4@georgetown.edu)), Department of Mathematics, Georgetown University, 37th & O Street NW, Washington, DC 20057. *Carleman estimates for systems of partial differential equations.*

Classical Carleman estimates have been established to prove the unique continuation property for partial differential equations with non-analytic coefficients. Over the last 30 years these estimates have become powerful tools when applied to problems of parameter identification or to problems of boundary control. While various types of Carleman estimates have been established for scalar second-order equations, there are only very few results pertaining to systems of partial differential equations. In this talk we will give a brief survey on Carleman estimates for systems and present some new results pertaining to hyperbolic systems. (Received September 22, 2011)