

1115-35-138

Nam Q. Le* (nqle@indiana.edu), Department of Mathematics, Indiana University, Bloomington, IN 47405, and **Ovidiu Savin** (savin@math.columbia.edu), Department of Mathematics, Columbia University, New York, NY 10027. *Global smoothness of the Monge-Ampere eigenfunctions.*

In this talk, we will discuss global smoothness of the eigenfunctions of the Monge-Ampere operator on smooth, bounded and uniformly convex domains in all dimensions. A key ingredient in our analysis is boundary Schauder estimates for certain degenerate Monge-Ampere equations. This is joint work with Ovidiu Savin. (Received September 13, 2015)