



Mathematics Colloquium



Control of Certain Classes of Degenerate Diffusive Systems

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Monday, December 7th, 2015

4:10 p.m.

Neill 5W

The control of diffusive systems is well developed for uniformly parabolic operators, much less so for degenerate problems. In the latter case, a general theory which covers controllability and observability is still missing. However, we can give a fairly complete analysis of such properties for certain classes of degenerate parabolic equations. This talk will focus on controllability and observability for models which degenerate at the boundary of the space domain as well as hypoelliptic diffusions associated with the Grushin and Heisenberg laplacians.

Refreshments served at 3:30 p.m.

Hacker Reading Lounge - Neill 216

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