

Analysis and Applied Mathematics Seminar

Smoothness property of hypoelliptic kinetic equations near boundaries

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Abstract: The boundary regularization effect for hypoelliptic kinetic equations is limited. The solution with the simplest zero inflow boundary conditions exhibits at most Hölder continuity near the singular set of the boundary. We will discuss recent results on hypoelliptic regularity and explain the smoothness properties of solutions in the presence of boundary conditions in certain cases.

Monday, September 30 at 4:00 PM in 636 SEO