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Colloquium

Observable set, observability, interpolation and spectral inequality for heat equation

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Abstract

In this talk, we introduce three kinds of inequalities on the heat equation in the whole space. They are observable inequality, the Holder-type interpolation inequality and the spectral inequality. We present the geometric characteristic of observable sets. In more detail, we show that a measurable set is observable if and only if it is equally distributed. We also show that the above-mentioned three inequalities are equivalent.

Date: 13 April 2018 (Friday)
Time: 3:30pm – 4:30pm
Venue: Room C3, Lady Shaw Building,
The Chinese University of Hong Kong, Shatin

All are Welcome