



Department of Mathematics
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Colloquium

Observability and unique continuation inequalities for the free Schrödinger equation

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Abstract

In this talk, we present several observability and unique continuation inequalities for the free Schrödinger equation in the whole space. The observations in these inequalities are made either at two points in time or one point in time. These inequalities correspond to different kinds of controllability for the free Schrödinger equation. We also find that the observability inequality at two points in time is equivalent to the uncertainty principle.

Date: January 13, 2017 (Friday)
Time: 4:30pm ~ 5:30pm
Venue: Room 219, Lady Shaw Building,
The Chinese University of Hong Kong, Shatin

All are Welcome