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# Seminar

## *Long-time dynamics of the modified KdV equation*

*Dr. Gong Chen*

*University of Toronto*

### Abstract

Soliton resolution, roughly speaking, says that any reasonable solution to a dispersive equation eventually resolves into a superposition of a radiation component plus a finite number of "nonlinear bound states" or "solitons". Combing ideas from integrable systems and PDEs, I will discuss the soliton resolution and long-time dynamics for the modified Korteweg-de vries (mKdV) equation with initial conditions in some weighted Sobolev spaces.

Date: 15 January 2020 (Wednesday)  
Time: 10:00am – 11:00am  
Venue: Room 222, Lady Shaw Building,  
The Chinese University of Hong Kong, Shatin

*All are Welcome*