



Speaker: Alex Himonas
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Monday, April 10, 2017

4:00 PM

229 Hayes-Healy Hall

Title: Well-posedness of evolution equations via the unified transform method.

Abstract:

The unified transform method was introduced in late nineties as the analogue of the inverse scattering transform machinery for integrable nonlinear equations on the half-line. It was later understood that it also has significant implications for linear initial-boundary value problems. In this talk, this method is used for showing well-posedness of nonlinear dispersive equations on the half-line with data in appropriate spaces. The nonlinear Schrodinger (NLS) equation will serve as the basic model for demonstrating this method.