

The College of Arts & Sciences
Department of Mathematical Sciences

Candidate Colloquium

Jonas Lührmann

Johns Hopkins University

Thursday, January 10th
Room 119, 60 West Charlton
4:00 – 5:00 pm

Nonlinear Dispersive and Wave Equations

Nonlinear dispersive and wave equations model a variety of wave propagation phenomena in nature - from the dynamics of Bose-Einstein condensates to the spreading of gravitational waves. In this talk I will give an introduction to these partial differential equations and present two of my research directions. On the one hand I am interested in the long-time dynamics of nonlinear wave equations with random initial data and on the other hand I study questions of global existence and scattering for geometric dispersive equations.

Refreshments will be served 3:15 – 3:45 pm in the Faculty & Graduate Student Lounge Room 4118 French Hall West