



THE UNIVERSITY  
of NORTH CAROLINA  
at CHAPEL HILL

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UNC PDE Mini-school  
“Geometric singular analysis and black holes”

Saturday, March 25, 2023  
3:30pm – 4:30pm  
PH 332

**Massive wave propagation near null infinity**

Ethan Sussman  
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**Abstract.** Understanding the behavior of solutions to the (linear) Klein-Gordon equation on asymptotically Minkowski spacetimes near null infinity poses several technical challenges. In this talk, we will present a geometric microlocal framework that allows a detailed analysis of the equation at null infinity, including the production of asymptotic expansions on a suitably compactified spacetime.