Applied Mathematics Seminar

Quasilinear Schrödinger Equations

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Abstract: We survey some recent results by the speaker, Jason Metcalfe and Daniel Tataru for small data local well-posedness of quasilinear Schrödinger equations. In addition, we will discuss some applications recently explored with Jianfeng Lu and recent progress towards the large data short time problem. Along the way, we will attempt to motivate analysis of the problem with connections to problems from Density Functional Theory.

Monday, April 13 at 4:00 PM in SEO 636