1108-35-336 **Jason Metcalfe*** (`metcalfe@email.unc.edu`), Department of Mathematics, University of North Carolina, Chapel Hill, NC 27599-3250. *Local well-posedness for quasilinear Schrodinger equations.*

We will discuss ongoing joint work with J. Marzuola and D. Tataru concerning low regularity local well-posedness results for quasilinear Schrodinger equations. Our results establish new benchmarks in terms of the required regularity for such equations to be well-posed. The function spaces in which we work incorporate a summability over cubes in order to deal with issues arising from the Mizohata integrability condition / the infinite speed of propagation. (Received January 18, 2015)