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Dan Andrei Geba* (dangeba@math.rochester.edu) and **Manoussos G. Grillakis** (mgrl@math.umd.edu). *Large data global regularity for quasilinear generalizations of the wave map system.*

In this talk, we will be discussing new large data global regularity results for the equivariant case of the classical Skyrme and 2 + 1-dimensional Faddeev models, which improve upon previous ones obtained by Li and Creek, respectively. The two models appear as physically motivated generalizations of nonlinear sigma theories (whose associated Euler-Lagrange equations form wave map systems). The method of proof relies on the verification of a continuation criterion for local-in-time solutions, thus transforming them into global ones. (Received July 23, 2017)