

1064-35-151

**Dan Andrei Geba\*** ([dangeba@math.rochester.edu](mailto:dangeba@math.rochester.edu)), Department of Mathematics, University of Rochester, 806 Hylan Building, Rochester, NY 14627. *Energy arguments for a semilinear Skyrme model.*

In this talk, we discuss a couple of results obtained for a semilinear modification of the wave map problem in 3+1 dimensions, that appears naturally in nuclear physics. Precisely, we show that the energy associated to the equation does not concentrate and, as a result, the map remains continuous at the first possible singularity. This is joint work with Sarada Rajeev. (Received September 06, 2010)