STEPHEN GUSTAFSON, University of British Columbia, 1984 Mathematics Rd., Vancouver, BC V6T 1Z2 Singularities and asymptotics for some geometric nonlinear Schroedinger equations

I will describe results on singularity (non-)formation and stability, in the energy-critical 2D setting, for some nonlinear Schroedinger-type systems of geometric origin—the Schroedinger map and Landau–Lifshitz equation—which model dynamics of ferromagnets and liquid crystals.