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Stephen Gustafson* (gustaf@math.ubc.ca). *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. (Received February 23, 2010)