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Schroedinger Flow and Landau-Lifshitz Dynamics

The Schroedinger flow into the 2-sphere is a geometric generalization of the linear Schroedinger equation, and a particular case of the Landau–Lifshitz equation for ferromagnets. Understanding the fate of solutions (blow-up? asymptotics?) is a challenge. I will describe some recent work on these questions, part of a joint project with K. Kang and T.-P. Tsai.