N-equivariant solitons for Landau-Lifshitz equations with the Chern-Simons gauge

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Abstract: In this talk, we propose the Landau-Lifshitz type system augmented with Chern-Simons gauge terms, which can be considered as the geometric analog of so-called the Chern-Simons-Schrodinger equations. We first derive its self-dual equations through the energy minimization so that we can provide N-equivariant solitons. We next deliver basic ideas of constructing N-equivariant solitary waves for non-self-dual cases and investigating their qualitative properties.

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