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Daniel Spirn* (spirn@math.umn.edu), 206 Church St SE, School of Mathematics, University of Minnesota, Minneapolis, MN 55455. *Local minimizers for the Chern-Simons-Higgs energy.*

I will discuss the construction of nontrivial local minimizers of the Chern-Simons-Higgs energy in a regime of parameters where the energy fails to Gamma converge. The method entails a new type of vortex ball construction. This is joint work with Xiaodong Yan. (Received August 02, 2007)