

Jackiw, R.; Weinberg, Erick J.

Self-dual Chern-Simons vortices. (English) Zbl 1050.81595
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Summary: We study vortex solutions in an Abelian Chern-Simons theory with spontaneous symmetry breaking. We show that for a specific choice of the Higgs potential the vortex satisfies a set of Bogomol'nyi-type, or "self-duality," equations.

MSC:

81T13 Yang-Mills and other gauge theories in quantum field theory

Cited in **1** Review
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