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Blow-up solutions of the Chern-Simons-Schrödinger equations. (English) Zbl 1173.35313
Nonlinearity 22, No. 5, 967-974 (2009).

Summary: We study finite time blow-up solutions of the Chern-Simons-Schrödinger system. In particular, explicit blow-up solutions are constructed by observing the pseudo-conformal invariance and finding solutions of the self-dual equations.

MSC:

[35A20](#) Analyticity in context of PDEs
[35Q55](#) NLS equations (nonlinear Schrödinger equations)

Cited in **37** Documents

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