

Dynamics of vortex filaments (Part 1)

jeudi 24 mai 2018 09:00 (1h 35m)

In this lectures I shall present first the known models for dynamics of vortex filaments. Then I shall focus on the binormal flow model and on its link with the 1-D cubic nonlinear Schrödinger equation. Finally I shall describe several frameworks of formation of singularities in finite time, both at the level of the binormal flow and at the level of the Schrödinger equation.

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Classification de Session: Mini-course by Valeria BANICA