

東工大数理解析セミナー

2019年7月22日(月) 16:00 -- 18:50 本館2階 213 セミナー室

16:00 -- 16:50

Zhi-You Chen 氏 (National Changhua University of Education)

On the uniqueness and structure of solutions to the system arising from Maxwell-Chern-Simons $O(3)$ sigma model

In this talk, we will talk about the uniqueness of topological multivortex solutions for the self-dual Maxwell-Chern-Simons $O(3)$ sigma model with Chern-Simons coupling parameter sufficiently large and the charge of electron either sufficiently small or large. Besides, we also establish the sharp region of flux-pairs for the non-topological solutions and provide the classification of radial solutions of all types for single vortex point case.