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Skyrme model at finite density and Skyrme crystals: analytic results

Thursday 13 June 2019 10:05 (25 minutes)

In this talk I will show how one can deduce exact analytic results in the Skyrme model on flat space-times using a quite remarkable mapping from the Einstein-Skyrme system. In particular, the explicit form of the critical Isospin chemical potential for one Skyrmion will be derived. Moreover, I will also describe analytically how Skyrme crystals appear at finite Baryon density. Due to the relations of the Skyrme model with the low energy limit of QCD, these results are not just of academic interest.

Presenter: CANFORA, Fabrizio

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