Mitia Duerinckx
(Université Libre de Bruxelles)

Thursday, May 16, 2024, 16:00

A duality method for mean-field limits with singular interactions

University of Tübingen, Mathematics Department, C4H33 and via Zoom:
https://zoom.us/j/94274376976?pwd=YVBvU2tNMTBXSGxGYVg4eUoyV1ZiQT09
Meeting-ID: 942 7437 6976
Kenncode: 929851

Abstract:

We introduce a new approach to justify mean-field limits for first- and second-order particle systems with singular interactions. It is based on a duality approach combined with the analysis of linearized dual correlations, and it allows to cover for the first time arbitrary square-integrable interaction forces at possibly vanishing temperature. This is joint work with D.Bresch and P.E.Jabin.