



## Mathematics and CS Seminar

# Higher order corrections to the mean-field dynamics of interacting bosons

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Host: Robert Seiringer

We consider the dynamics of  $N$  bosons which are initially in a Bose-Einstein condensate and interact via pair interactions in the mean-field scaling regime. We derive a sequence of  $N$ -body functions which approximate the true many-body dynamics in norm to arbitrary precision in powers of  $1/N$ . Joint work with Natasa Pavlovic, Peter Pickl, and Avy Soffer.

**Thursday, November 21, 2019 04:00pm - 06:00pm**

Heinzel Seminar Room / Office Bldg West (I21.EG.101)



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

Please find a schedule of the ISTA Shuttle on our webpage:

<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.