Mathematics and CS Seminar

Asymptotic expansion of the low-energy excitations for weakly interacting bosons

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Host: Robert Seiringer

We consider a system of N bosons in the mean-field scaling regime for a class of interactions including the repulsive Coulomb potential. We derive an asymptotic expansion of the low-energy eigenstates and the corresponding energies, which provides corrections to Bogoliubov theory to any order in $1/N$. This is joint work with Sören Petrat and Robert Seiringer.

Thursday, October 29, 2020 04:15pm - 05:15pm
online via Zoom

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.

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