



## 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**

IST Austria Campus online via Zoom



This invitation is valid as a ticket for the IST Shuttle from and to Heiligenstadt Station. Please find a schedule of the IST Shuttle on our webpage: <https://ist.ac.at/en/campus/how-to-get-here/> The IST Shuttle bus is marked IST Shuttle (#142) and has the Institute Logo printed on the side.