



Seminar/Talk

The excitation spectrum of Bose gases interacting through singular potentials

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Host: Robert Seiringer

We consider systems of N bosons in a box with periodic boundary conditions, interacting through a repulsive two-body potential of the form $\kappa V(N^\beta x)$. For all $0 < \beta < 1$, and for sufficiently small coupling constant $\kappa > 0$, we establish the validity of Bogoliubov theory, identifying the ground state energy and the low-lying excitation spectrum up to errors that vanish in the limit of large N . Joint work with Christian Brennecke, Serena Cenatiempo and Benjamin Schlein.

Thursday, November 23, 2017 04:00pm - 06:00pm

Big Seminar room Ground floor / Office Bldg West (I21.EG.101)



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