



## Seminar/Talk

# Study of a simple equation that describes the ground-state energy of a Bose gas at low and high density and in dimensions one, two and three

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Host: Robert Seiringer

I will start with a quick review of the simple equation derived in 1963 to calculate the ground state energy  $E$  of a dilute Bose gas with 2-body repulsive interactions. It yielded the famous LHY second order term for  $E$ . Beyond that it has been recently been shown to agree remarkably well with Monte Carlo calculations in 3 dimensions for ALL densities, revealing what might be previously unsuspected changes at intermediate density.

**Thursday, March 16, 2023 04:15pm - 05:15pm**

ESI Vienna, Boltzmannngasse 9, 1090 Vienna



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

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<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.