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

Elliott Lieb

Princeton University

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, Boltzmanngasse 9, 1090 Vienna

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.