Seminar/Talk

Upper bound for the energy of a confined gas of hard sphere bosons

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Host: Laszlo Erdös

We prove an upper bound for the ground state energy of a confined gas of N bosons, optimal up to errors vanishing as N tends to infinity. We consider particles moving on the three-dimensional unit torus, interacting through a hard sphere potential with radius of order 1/N (Gross-Pitaevskii regime). This is joint work with G. Basti, S. Cenatiempo, A. Olgiati and G. Pasqualetti.

Thursday, December 2, 2021 04:15pm - 05:15pm
Online via Zoom

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