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DK Seminar

November 19, 2014, 13:45 - 15:00

TU Vienna, 'Freihaus', green area, 4th floor, SEM 101C

Boris Pawilowski

University of Vienna

About the rate of convergence of the mean field approximation

By considering the time evolution of quantum states by many-body Schrödinger dynamics, in the case of bounded pair potentials, one can show that if the rate of convergence of their reduced density matrices in the mean field limit for some correlated states at initial time is of the type $1/N$ then it still holds at any time.