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## DK Seminar

May 20, 2015, 14:00 - 15:30

University of Vienna

Oskar-Morgenstern-Platz 1, WPI, 8th floor, Seminarroom.

**Boris Pawilowski**

University of Vienna

### **Mean field limit for discrete models: analysis and numerics**

We deal with approximations of the time-dependent linear many body Schrödinger equation with a two particles interaction potential, by introducing a discrete version of the equation and mean field limits. We consider the bosonic Fock space in a finite dimensional setting. Mathematical tools include the reduced density matrices and Wigner measure techniques exploiting the formal analogy to semi-classical limits.