

Seminar 2024

Math

On the kinetic Fokker-Planck equations for quantum particles

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Abstract: The kinetic Fokker-Planck (FP) equation is one of the well-known variant models of the celebrated Boltzmann equation, describing the dynamics of particles in the presence of diffusion and friction. In this talk, we first provide the basic properties of the FP equation for classical particles and introduce the nonlinear version of the FP equation. Then we discuss the nonlinear extension of the FP equation for quantum particles and its mathematical structure.



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