

MAFIA - seminář, který se neodmítá

## **The Kramers-Fokker-Planck equation with a short-range potential**

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**Abstract:** This talk is concerned with the Kramers-Fokker-Planck equation with a potential whose gradient tends to zero. We establish high energy pseudo-spectral estimates for this class of potentials. Low-energy spectral analysis is more subtle and we are only able to carry it out for short-range potentials in dimension three. Consequently, we obtain optimal time-decay estimates for the solutions.