ANALYSIS AND DIFFERENTIAL GEOMETRY
SEMINAR

Generation and propagation of moments for the binary-ternary Boltzmann equation

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Abstract: The binary-ternary Boltzmann equation is a recently derived kinetic equation describing the evolution of the probability density a non-ideal gas in non-equilibrium. In this talk we focus on the homogeneous (space invariant) equation and discuss the generation and propagation of polynomial and exponential moments properties of a solution. We will then employ these properties to discuss global in time existence and uniqueness. This is a joint work with Maja Taskovic.

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