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Kinetic Mini-Course

Classical diffusive limits for the linear Boltzmann equation and study of the Rosseland Approximation in Radiative transfer II

Dr. Ivan Moyano
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Abstract

In this second lecture, we shall resume our analysis of the Radiative Transfer equation an its diffusive limits following the work by Bardos, Golse, Perthame and Sentis (1988), which crucially relies on averaging lemmas (cf. Golse et al. 1988) to overcome the difficulties encountered concerning the nonlinear regime in the first lecture. If time allows, we shall study how the diffusive limit in the nonlinear regime (Rosseland approximation) may need the introduction of a suitably chosen boundary layer.

Date: 10 April 2018 (Tuesday)
Time: 3:00pm – 5:00pm
Venue: Room 219, Lady Shaw Building,
The Chinese University of Hong Kong, Shatin

All are Welcome