

Mathematisches Kolloquium

Mittwoch, 21. Juni 2017 Sky Lounge

EINLADUNG

Laure Saint-Raymond

(ENS Lyon)

"Propagation of chaos and irreversibility in gas dynamics"

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Abstract:

I will review various contributions on the fundamental work of Lanford deriving the Boltzmann equation from hard-sphere dynamics in the low density limit.

I will focus especially on the assumptions made on the initial data and on how they encode irreversibility.

We will see that the impossibility to reverse time in the Boltzmann equation (expressed for instance by Boltzmann's H-theorem) is related to the lack of convergence of higher order marginals on some singular sets.

15.45 Uhr: Kaffeejause 16.15 Uhr: Vortrag

vinum cum pane im Anschluss

Herwig Hauser Christian Krattenthaler