

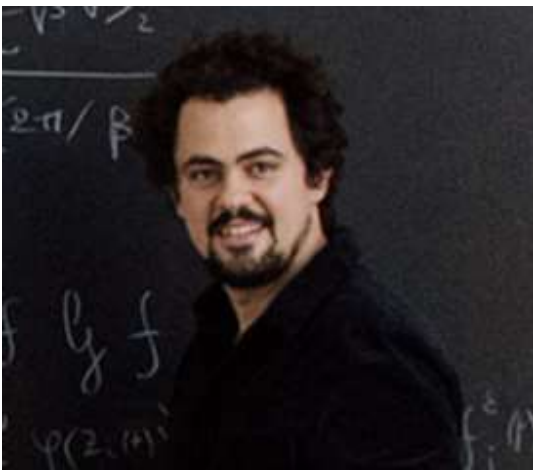


**UNIVERSITÀ
DI PARMA**

DIPARTIMENTO DI SCIENZE MATEMATICHE, FISICHE E INFORMATICHE

<http://smfi.unipr.it>

**SEMINARIO
COLLOQUIUM DI MATEMATICA, FISICA E INFORMATICA**



Prof. Sergio Simonella,

La Sapienza Università di Roma

Mercoledì 30 ottobre 2024 ore 16.30

Aula A, Plesso di Matematica,
Campus Scienze e Tecnologie

Titolo:

Recent results in the mathematical theory of rarefied gases

Sunto: I will review the state of the art in Grad's validity problem for a mathematical justification of fluid equations based on fundamental laws of classical mechanics. With the techniques currently available, such a problem can be faced in some simple case for perfect gases, using the kinetic theory of Boltzmann as an intermediate step. In particular I will discuss a recent result establishing the connection between microscopic and hydrodynamic scales, for perturbations of a global equilibrium.

Funded by the European Union.

Organizzatore: prof. Adriano Tomassini