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# Kinetic Seminar

## Fluid Limits from Fermi-Dirac-Boltzmann Equation

by

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Abstract :

In his 2015 Ecole Polytechnique thesis, T.Zakrevskiy formally derived some fluid dynamics from quantum Boltzmann equation (Fermi-Dirac statistics). We rigorously justify two types of limits: incompressible Navier-Stokes-Fourier and compressible Euler (then acoustic) systems, by establishing some new nonlinear estimates on triple terms, and uniform estimates with respect to Kundsen number. These are joint works with Kai Zhou (and partially Linjie Xiong).

Schedule Changed

Date : September 17, 2021 (Friday)  
Time : 2:00pm – 3:00pm (Hong Kong SAR)  
ZOOM Meeting ID : 702 854 0983  
Passcode : 202122

*All are Welcome*