

## **Jingwei Hu: A brief introduction to the Boltzmann equation and its numerical methods 1/4**

*Monday, September 9, 2024 10:30 AM (1 hour)*

In this short course, I will give a brief introduction to the Boltzmann equation including its derivation and basic properties. Then I will introduce the deterministic numerical methods, in particular, the Fourier spectral method, for solving the Boltzmann equation. Both the fast implementation and stability/convergence of the method will be discussed.