For Favour of Posting



Department of Mathematics The Chinese University of Hong Kong



Phone: (852) 3943 7988 • Fax: (852) 2603 5154 • Email: <u>dept@math.cuhk.edu.hk</u> (Math. Dept.) Room 220, Lady Shaw Building, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong



## Boltzmann collision operator for the infinite range potential

## **Prof. Jin-Cheng JIANG** National Tsing Hua University

## <u>Abstract</u>

The conventional Boltzmann collision operator for the infinite range inverse power law model was derived by Maxwell by adopting a collision kernel which is a limit of that for the finite range model by ignoring the glancing angles. Since the interpretation of collision operator for the infinite range potential through limit precess to the one with finite range potential is natural in regard to the derivation of the Boltzmann equation. It is the purpose of this work to clarify the physical meaning of the conventional collision operator through the study of the limiting process of the collision operator as the cutoff radius tends to infinity. This is a joint work with Tai-Ping Liu.

Date :	January 12, 2017 (Thursday)
Time :	10:30am – 11:30am
Venue :	Room 219, Lady Shaw Building,
	The Chinese University of Hong Kong

All are Welcome