

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research  
Department of Mathematics*

## **Analysis Seminar**

# **Global regularity for the 3D relativistic massive Vlasov-Maxwell system**

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### **Abstract**

Given any smooth, suitably small initial data, which decays polynomially at infinity, we prove global regularity for the 3D relativistic massive Vlasov-Maxwell system. In particular, neither the initial density distribution function nor the electromagnetic field is assumed to have a compact support. The compact support type assumption was assumed in all previous results.

Date: February 26, 2019 (Tuesday)

Time: 3:30 - 4:30pm

Venue: Room 210, Run Run Shaw Bldg., HKU

*All are welcome*