

NONLINEAR STABILITY OF THE VLASOV-POISSON SYSTEM IN R^3

**Speaker: Xuecheng Wang
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Time: Thu, Oct. 12, 2 0:00-21:00

Venue: Zoom: 618-038-6257, Password: SCMS

Abstract: We consider the stability problem for the 3D Vlasov-Poisson system in the whole space around the spatially homogeneous nontrivial equilibrium. In particular, we give linear stability for a class of general equilibrium and nonlinear stability for a special equilibrium, which is the so-called Poisson equilibrium. This talk is based on joint works with A. Ionescu (Princeton University), B. Pausader (Brown University), and K. Widmayer (University of Zurich and University of Vienna).