Analysis and Applied Mathematics Seminar

Small Debye length limit for the Euler-Poisson system Bongsuk Kwon (Ulsan National Institute for Science and Technology)

Abstract: We discuss existence, time-asymptotic behavior, and quasi-neutral limit for the Euler-Poisson equations. Specifically, under the Bohm criterion, we construct the global-in-time solution near the stationary solution of plasma sheath, and also investigate its time-asymptotic behavior and small Debye length limit. If time permits, some key features of the proof and related problems will be discussed. This is joint work with C.-Y. Jung (UNIST) and M. Suzuki (Nagoya Tech.).

Monday, September 24 at 4:00 PM in 636 SEO