Quasi-neutral limit for the Euler-Poisson system

Bongsuk Kwon

Ulsan National Institute of Science and Technology (UNIST), Republic of Korea

We discuss the existence, time-asymptotic behavior, and quasi-neutral limit of the boundary layer solutions for the Euler-Poisson equations. If time permits, some key features of the proof and related problems will be discussed. This is a joint work with C.-Y. Jung (UNIST) and M. Suzuki (Nagoya Inst. Tech.).