

Seminar 2022

Math

The behaviors of the 1D Euler-Poisson
system for ions

배준식 박사

UNIST

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Abstract: The ion in a fully ionized electrostatic plasma is described by the Euler-Poisson system with the Boltzmann relation. We numerically observe the behavior of solutions to the 1D Euler-Poisson system for some initial data. We also introduce some analytical results on the linear stability of solitary waves and the formation of singularities. These are joint works with Junho Choi and Bongsuk Kwon.



연세대학교 수학기산학부

주최: 4단계 BK21 수리과학 및 계산 교육연구단