Seminar 2021

Math

The Formation of Singularities for Hall MHD and Water Wave Models

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2021년 6월 24일(목) 14시
ZOOM강의

Abstract: In this talk, several examples of singularity formation of some PDEs will be presented via the Riccati-type equations. We first discuss the magnetic reconnection phenomena of the Hall MHD as a finite time singularity formation of a X-point configuration. We then explain how to show finite time singularity formations of 3 water wave models: one viscous model (Kakutani-Matsuuchi model) and two inviscid models (Serre-Green-Naghdi model and abcd-Boussinesq model).

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주최: 4단계 BK21 수리과학 및 계산교육 연구단