

Polina Vytnova

Title: Estimating fast dynamo growth rate using Zeta functions

Abstract: Kinematic fast dynamo theory is an area of magnetohydrodynamics which subject is the origin and maintenance of magnetic field of large astrophysical objects. I will explain how one can estimate the growth rate of magnetic field in several simple scenarios, using traditional approach of Grothendieck and Ruelle to calculating the largest eigenvalue of the Dynamo operator.