

Mathematical Sciences Colloquium

A Star Story in Nonlinear PDEs



Professor

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16:00 - 17:15

Venue Building 110, Auditorium N103

Host

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Abstract

It has been one of fundamental subjects in nonlinear PDE theories to model astronomical objects like stars and their dynamics since the discovery of calculus and differential equations. In this talk, I will just tell a story of stars in PDE theories: how I met stars in my journey of research and how they universally appear in almost every type of PDEs such as elliptic, dispersive, kinetic and hyperbolic. Surprisingly, they are even connected with each other through some natural limit processes. If time permits, I will also talk about my small contribution to this story and not-so-small looking goals to this story.