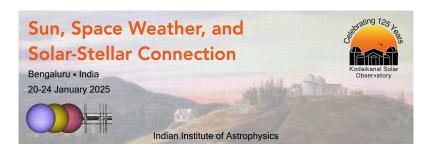
Sun, Space Weather, and Solar-Stellar Connection



Contribution ID: 118 Type: Invited talk

Anomalous Rotators and New Evolutionary Pathways in Red Giants

Thursday, January 23, 2025 11:55 AM (20 minutes)

Stellar pulsations offer valuable insights into the internal structure and rotation profiles of stars. The availability of high-quality observations from numerous space-based instruments makes it possible to pursue ensemble analyses on an unprecedented scale. To this end, we have used machine learning to accelerate these studies by several orders in magnitude. I will describe how deep learning models applied to Kepler observations have revealed new physical insights into angular momentum transport, magnetism and structure evolution in the red-giant phase.

Contribution Type

Theme

Solar - Stellar Connections

Primary author: HANASOGE, Shravan (Tata Institute of Fundamental Research)

Presenter: HANASOGE, Shravan (Tata Institute of Fundamental Research)

Session Classification: Asteroseismology