

## FY 2025 Spring School Syllabus of Hands-on Session

Subject : Inferring the redshift of Gamma-Ray Bursts with Machine learning

Instructor : Maria Giovanna Dainotti

Outline : I will revise the theory behind the machine learning analysis and discuss the importance of this topic for high energy astrophysics. I will show hands-on session on how to infer the GRB redshift with a combined data set of optical and X-ray data. The data analysis will be run in Google Collab, Mathematica and if time allows in R.

Maximum number of students to be accepted : 10