

Session Program

31 August 2026 to 4 September 2026



MACHINE LEARNING FOR ASTROPHYSICS

3RD EDITION

VALLETTA, 31 AUG - 4 SEP, 2026

International Conference on Machine Learning for Astrophysics 3rd Ed. - ML4ASTRO3

Astroparticles

University of Malta, Aula Prima
Valletta Campus, St Paul Street Valletta VLT 1216, Malta

Tuesday 1 September

09:00

Astroparticles: I

Session | **Location:** University of Malta, Aula Prima, Valletta Campus, St Paul Street Valletta VLT 1216, Malta

09:00-09:40

[INVITED] Machine Learning and Deep Learning in Astroparticle Physics: From Cosmic Rays to Neutrino and Gamma-Ray Astronomy

Speaker

Yvonne Becherini

09:40-10:00

From FermiLAT Unassociated Sources to Pulsar Discoveries: A Hierarchical Deep Learning 1DCNN Approach for Spectral Classification

Speaker

Cristian Pozo González

10:00-10:20

Prompt GRB classification through waterfalls and deep learning

Speaker

Nicolò Cibrario

10:20-10:40

AI-based identification of high-redshift Gamma-ray Burst afterglows in Fermi-LAT observations

Speaker

Riccardo Martinelli

10:40

11:10

Astroparticles: II

Session | **Location:** University of Malta, Aula Prima, Valletta Campus, St Paul Street Valletta VLT 1216, Malta

11:10-11:30

IROS Diffusion Imaging for the LEM-X Observatory

Speaker

Edoardo Giancarli

11:30-11:50

Classification of the Variability Patterns of the Black Hole Binary GRS 1915+105 Using Deep Learning

Speaker

Kenji Yoshida

11:50