

Session Program

6-10 Nov 2023



ML4Jets2023

Astrophysics and Astronomy

DESY, Main Auditorium

Wednesday 8 November

09:00

Astrophysics and Astronomy

Session | **Location:** DESY, Main Auditorium | **Convener:** David Shih

09:00–09:30

Machine Learning in Astrophysics and Astronomy

Speaker

Caroline Heneka

09:30–09:45

Mapping Dark Matter in the Milky Way using Normalizing Flows and Gaia DR3

Speaker

Eric Putney

09:45–10:00

Bayesian Insights into the high-redshift Universe with 21cmPIE-cINN

Speakers

Benedikt Schosser, Theo Heimel

10:00–10:15

PINNflation solving the dynamics of Inflation using Physics Informed Neural Nets

Speaker

Lennart Röver

10:15–10:30

ML Approach to Infer Galaxy Cluster Masses from eROSITA X-ray Images

Speaker

Nicolas Barón Pérez

10:30