Contribution ID: **17**   Type: **not specified**

Strengthening leverage of Artificial Intelligence in interdisciplinary Science: Astrophysics use cases

Friday, 20 February 2026 14:30 (45 minutes)

Content: Most domains of science are experiencing a paradigm shift due to the availability data streams at an unprecedented rate. The scientific exploitation of these data, namely Data Driven Discovery, requires interoperability, massive and optimal use of Artificial Intelligence methods in all steps of the data acquisition, processing and analysis, the access to large and distributed computing HPC facilities, the implementation and access to large simulations and interdisciplinary skills that usually are not provided by standard academic curricula. Through the presentation of several astrophysical use cases, we show how the Data Driven based solutions could represent the optimal playground to achieve the multi-disciplinary methodological approach.

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Session Classification: ML applications in Astronomy