

Session Program

30 September 2026

KickOff Meeting

Flash Talk

Bologna - IRA, 4th Floor Meeting room

Wednesday 30 September

12:00

Flash Talk: Attivita' di ricerca in corso

Session | **Location:** Bologna - IRA, 4th Floor Meeting room

12:00-12:07

Measuring Science per Watt: Hardware-Aware Power Profiling for Heterogeneous HPC

Speaker

David Goz

12:07-12:14

The HPC-oriented Transition Matrix formalism to solve radiation scattering processes

Speaker

Dr Giovanni La Mura

12:14-12:21

High performance Stingray

Speaker

Dr Eleonora Veronica Lai

12:21-12:28

A3I: an AI-assisted optical alignment framework for spectrographs

Speaker

Dr Andrea Scaudo

12:28-12:35

Echo-Twin: Architetture Edge-Cloud-HPC e Digital Twin per il Monitoraggio del Territorio

Speaker

Leonardo Pelonero

12:35-12:42

HPC Computing for Lightweight AI on UAVs and Edge Devices

Speaker

Roberto Spina

12:42-12:49

Modeling Supernova Remnants in the Exascale Era: Accelerating MHD Simulations on GPUs

Speaker

Sabina Ustamujic

12:49-12:56

Machine learning per l'analisi di segnali in esperimenti fisici e astrofisici con rappresentazioni a grafo

Speaker

Clara Saia

12:56-13:06

Quantum Computing for Gamma-Ray Astrophysics: Detecting and Localizing Sources with Variational Circuits and Quantum Annealing

13:30

Speaker

Alessandro Rizzo

13:07-13:17

Cosmological Applications of Quantum Computing

Speaker

Giuseppe Sarracino

13:17-13:29

Experience in HPC, AI and QC

Speaker

Daniele Gregori

14:30

Flash Talk: Attività di ricerca in corso

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14:30-14:37

SIBILLA: ML for scalable and interpretable Bayesian inference in Astrophysics

Speaker

Eleonora Villa

14:37-14:44

WATCHER - Wide-field Optical Observations based on Artificial Intelligence for Tracking, Classification and Characterization of Space Debris

Speaker

Ivan Agostinelli

14:44-14:51

The particle modules of gPluto

Speaker

Agnese Costa

14:51-14:58

From Gaia data management solutions to an intelligent Multi-Agent system for data models and product discovery

Speaker

Sara Gelsumini

14:58