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PIANO NAZIONALE DI RIPRESA E RESILIENZA
ICSC
Centro Nazionale di Ricerca in HPC, Big Data and Quantum Computing

Updates and communications

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WP1,WP2 Monthly Meeting, Jun 10, 2025

Milestone 10: September 2024 - August 2025

DEADLINE to include/update/upload **Targets and KPIs** is **August 31st** :

WP1

https://docs.google.com/spreadsheets/d/17VM0sgVI-67zREdK7ZJqVlHymbQDK7OakGK5dER9eCg/edit#gid=1922041983

WP2

https://docs.google.com/spreadsheets/d/1e4TGeMVn-p1oSyuo8N3RkU9-rHDEOQZ5F29CBRfSxGk/edit#gid=1922041983

All the activities that reach the milestone target MUST feature links to products (e.g. figures, graphs, papers, tarball with code, github tagged version, …) that can be downloaded and shared with referees upon their request.

Summer Break

We will pause our meetings for few months and plan to restart on Sep 2025, for the final part of the project.

Spoke-3 Computational resources

Submission of papers to the special issue of "Astronomy and Computing" that focusses on the work accomplished in the National Centre for HPC, Big Data and Quantum Computing. All contributors to the National Centre are strongly encouraged to submit in this special issue:

https://www.sciencedirect.com/special-issue/322701/advancing-cosmology-and-astrophysics-through-high-performance-computing-and-machine-learning

The deadline for submission is 31 AUGUST 2025

The papers will also be presented (as oral presentations or posters) during the final Spoke 3 Meeting which will take place in Sesto Pusteria from December 14 to 19.

Today's Speakers

(we are going to record your contribution, thanks!)

- STINGRAYS- Temporal analysis of large data archives from X-ray missions

Please remember to upload your presentation on indico

Update Round

Please answer the following three questions for each code:

1. — What's the main result you have accomplished during last month?
2. — Which KPI(s) have you fulfilled so far?
3. — What's the main (not yet solved) issue you are facing?

and check what's written in the minutes

- RAMSES (INAF)
- ISTEDDAS (absent)
- COSMICA
- BrahMAP
- RICK - HPC and GPU development for radio astronomy data reduction
- NP_TMCode
- Sparse representations for spectral-imaging codes
- GPU porting of a Cosmological Boltzmann solver
- TURBO
- GUIBRUSH(R) (absent, justified)
- Mercury-Arxes

- GalaPy
- PINOCCHIO
- OpenGadget3 code
- PBJ: Power spectrum and Bispectrum Joint analysis (absent)
- HPC and accelerators exploitation for radio imaging software (absent)
- Simulations for LiteBIRD experiment (absent)
- Temporal analysis of large data archives from X-ray missions