

TA5 matters

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TA5 – short overview

- **Next deliverable D-TA5-WP2-3** Test environment for identifying highly complex (multi-parametric) signals in huge data streams. → Overleaf document advanced, update today
- Planning for ML-FPGA workshop
- Developments for **Machine Learning-based Pipeline for Pulsar Analysis**
 - Repository <https://gitlab.com/ml-ppa/>
 - Documentation https://gitlab.com/ml-ppa/gitlab-profile/-/blob/main/PUNCH_interTwin_project.pdf
 - Talk by Yurii on first released version of ML-PPA at Bonn Neutron Star workshop
- Further work and testing for integration into Storage4PUNCH/Compute4PUNCH
- Meeting for Bayesian approaches TA3-WP1 - TA5-WP1 on April 17 → follow-up meeting
- Only few activities in WP5, deliverables to be discussed
- Activities of PUNCH members to be documented by PIs (until June 15)
- General meeting on June 20

Results page

Major update of results page <https://results-dev-punch4nfdi.sirrah.aip.de/>

 PUNCH4NFDI website The consortium website with general news, information channels, workshop announcements URL https://www.punch4nfdi.de Tags Communication, Statements, Partners, Workshops, News	 PUNCH4NFDI results This website provides quick access to services, tools and documents which are either direct products of work within PUNCH4NFDI or e.g. data repositories... URL https://results.punch4nfdi.de Tags NFDI, Cloud, Infrastructure, Services
 PUNCH4NFDI Intranet Documents, reports, minutes, communications of the Task Areas and their workpackages, drafts for statements, everything which is internal to the wo... URL https://intra.punch4nfdi.de Access AAI Tags Task Areas, NFDI sections, Deliverable reports	 P4N Mattermost PUNCH4NFDI's internal chat with file sharing capabilities. Mattermost is hosted at AIP. URL https://mattermost-p4n.aip.de Access AAI Tags TA+WP channels, InterTA communication
 P4N Event Calendar Events, sessions, meetings management. Indico is hosted by DESY. URL https://indico.desy.de/category/738/ Access public or AAI	 P4N Sync & Share an online storage service to easily and quickly store data and access it from different end devices. Hosted by DESY. URL https://syncandshare.desy.de Access AAI Tags storage, file sharing, NextCloud
 P4N AAI The Community AAI of PUNCH4NFDI, one of the first NFDI AAI, in operation since start of the consortium and managed by us. Provides authentication to... URL https://login.helmholtz.de/punch/ Access AAI Tags DFN-AAI, AARC, HIFIS, EOSC, Single-Sign On, Okta2	 P4N Gitlab PUNCH4NFDI's software repository platform. Code Repository, CI/CD, Container Registry, tutorials Gitlab is hosted at AIP. URL https://gitlab-p4n.aip.de Access AAI Tags git, software, collaboration, Container build (CI/CD), tutorials
 P4N REANA REANA allows scientists to run containerised data analysis pipelines on remote compute clouds. PUNCH uses REANA to capture reproducible... URL https://reana-p4n.aip.de Access AAI Tags workflow execution engine, analysis, reproducible workflows, CWL, Yadage, Snakemake	 P4N DRP Registry Draft implementation of P4N's DRP (Digital Research Product) registry. Hosted at AIP. URL https://pr-p4n.sirrah.aip.de Access AAI Tags Workflow, Software, Data, Execution

Can ML-PPA framework be added soon?

Home Documents Compute Info and Support

Metadata Documents

Metadata schema, protocols and standards from PUNCH communities

Astronomy and Astrophysics

- [International Astronomical Union: Theasurus](#)
- [International Astronomical Union: FITS Standard](#)
- [International Virtual Observatory Alliance: Documents and Standards](#)

Metadata papers from PUNCH

- [Overview of petabyte-scale metadata storage methods and frameworks](#)
- [Curation and metadata - concepts for data irreversibility](#)

Where to integrate other TA5 documents?

Other TA5-related software or documents available? AMPEL?

Documents for Zenodo

Completed documents:

- D-TA5-WP2-1 Curation & metadata schemes for dynamic filtering (in Zenodo)
- D-TA5-WP2-2 Strategy concept for identifying highly complex (multi-parametric) signals in huge data streams
- D-TA5-WP3-1 Specifying the concept of a dynamic archive
- D-TA5-WP1-1 Report on impact of on-line filtering on discovery potential

Sent to MB/EB end in October/December 2023

Goal: Relevant documents in Zenodo by end of June

Final coordination for uploading to Zenodo needed for D-TA5-WP3-1 and D-TA5-WP1-1 (main authors?)

Executive summaries completed for above documents – final coordination with Christiane/Thomas

Pdfs in the intranet:

https://gitlab-p4n.aip.de/punch/intra-docs-content/-/tree/master/files/TA5/Documents_deliverables

Agenda today

TA5 Meeting

 Donnerstag 06.06.2024, 09:00 → 10:15 Europe/Berlin

 Andreas Redelbach (Frankfurt Institute for Advanced Studies)

Beschreibung <https://eu01web.zoom.us/j/93015962033?pwd=QzlPZm1TVTIkQ1lGam85WDJjbzVTZz09>

Internal documentation: <https://intra.punch4nfdi.de/?md=/docs/TA5/overview.md>

09:00 → 09:10 **TA5 documents and reports**

🕒 10m

Sprecher: Andreas Redelbach (Frankfurt Institute for Advanced Studies)

09:10 → 09:35 **WP2: Test environment and documentation of prototypes**

🕒 25m

Sprecher: Ramesh Karuppusamy

09:35 → 09:50 **Status updates of WPs**

🕒 15m