First results from the PUNCH4NFDI Consortium

Particles, Universe, NuClei and Hadrons for the NFDI

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Nationale Forschungsdateninfrastruktur (NFDI)

- Sustainable utilisation of research data
- Establishment of FAIR data management
- Connection to European and international efforts (like EOSC)
- Bottom-up approach of 26 independent consortia
- 5 (+5) year funding

See also DFG.de/nfdi and nfdi.de
The main goal of PUNCH4NFDI
Rephrased

• Bringing the capabilities of complex workflows in big experiments from the experiments to everybody
• Bringing the modern ways of interacting with computing to PUNCH
• Bringing the expertise of open low level data in Astrophysics to HEP/ Hadron/ Nuclear Physics
• Bringing the expertise in irreversible online data reduction from HEP to Astrophysics
• From the biggest experiments to the individual and back
• From small scale experiments and their local computing and theorists/ phenomenologists to large scale international experiments
• From local computing to large scale infrastructure
The main goal of PUNCH4NFDI

Essence

A "FAIR" science data platform, offering the infrastructures and interfaces necessary for the access to and use of data and computing resources of the involved communities and beyond.
Who We Are
Universities, Helmholtz, Max Planck, Leibniz
Task Areas

TA 1: Management and governance

TA 2: Data management

TA 3: Data transformations

TA 4: Data portal

TA 5: Data Irreversibility

TA 6: Synergies & services

TA 7: Education, training, outreach, citizen science
Where we stand

In keywords

- Storage4PUNCH
- XRootD
- dCache
- CVMFS
- Compute4PUNCH
- dCache
- Keycloak
- Rucio
- DRP registry
- Software & workflow repository
- Dynamical archive prototype
- DRP registry
- Software & workflow repository
- Dynamical archive prototype
Thank you!

The PUNCH4NFDI Consortium

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