

# Recap of PUNCH annual meeting

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# Overview

Agenda: <https://indico.desy.de/event/34710/timetable/#20220929.detailed>

13:00	<b>Women4PUNCH (women only): Women4PUNCH</b> <i>Christiane Schneide, Susanne Pfalzner</i> 13:00 - 14:00
14:00	<b>Welcome and charge of the meeting</b> <i>Thomas Schoerner-Sadenius</i> 14:00 - 14:10
	<b>Welcoming speech</b> <i>Regine Stein</i> 14:10 - 14:20
	<b>Welcoming speech</b> <i>Julian Kunkel</i> 14:20 - 14:30
	<b>Information by local organisers</b> <i>Arnulf Quadt</i> 14:30 - 14:40
	<b>PUNCH4NFDI: Status of the consortium</b> <i>Christiane Schneide</i> 14:40 - 15:10
15:00	<b>Coffee break</b> 15:10 - 15:30
	<b>Education, training and outreach</b> <i>Carsten Burgard et al.</i> 15:30 - 15:50
16:00	<b>Dynamic Filtering: Artificial Neural Networks on FPGAs for Real-Time Processing of ATLAS LAr Calorimeter Data</b> <i>Johann Christoph Voigt</i> 16:10 - 16:20
	<b>Open Source Tools</b> <i>Makarim Bouyahiaoui</i> 16:20 - 16:30
	<b>Marketplace tools: archive repositories</b> <i>Ramin Marx</i> 16:30 - 17:00
	<b>Collaboration Tools</b> <i>Harry Enke et al.</i> 17:00 - 17:45
17:00	<b>CB Meeting</b> <i>Thomas Schoerner-Sadenius</i> 17:00 - 17:45
	<b>Historic tour</b> <i>Arnulf Quadt</i>

09:00	<div>TA3 Joseph Mohr et al.</div> <div>08:30 - 10:00</div>	<div>TA4 Harry Enke et al.</div> <div>08:30 - 10:00</div>	<div>TA5 Andreas Redelb... et al.</div> <div>08:30 - 10:00</div>	<div>TA6 Kilian Schwarz et al.</div> <div>08:30 - 10:00</div>	<div>TA2 Christoph Wissing et al.</div> <div>09:15 - 10:00</div>	<div>TA7 Frank Bertoldi et al.</div> <div>09:15 - 10:00</div>
10:00	<div>Coffee break</div> <div>10:00 - 10:30</div>			<div>Poster session - all posters are uploaded for remote participation</div>		
	<div>Workflow management systems</div> <div>Caspar Schmitt</div> <div>10:30 - 11:00</div>					
11:00	<div>SciTrace</div> <div>Yori Fournier</div> <div>11:00 - 11:15</div>					
	<div>Storage4PUNCH Demo</div> <div>11:15 - 11:45</div>					
	<div>Compute4PUNCH Demo</div> <div>Benoit Roland et al.</div> <div>11:45 - 12:15</div>					
12:00	<div>Lunch break</div> <div>12:15 - 13:15</div>					
13:00	<div>PUNCHLunch: Black holes and data management</div> <div>Christian Fromm et al.</div> <div>13:15 - 14:15</div>					
14:00	<div>Reports and farewell</div> <div>Matthias Steinm</div> <div>14:15 - 15:00</div>					

# Summary of discussions in TA5

- Main focus on deliverable “**Meta data concept**” – input from all WPs required, regular (biweekly) meetings are planned to further coordinate the “real” work. Several additional subsections (e.g. simulation-based metadata or metadata relevant for anomaly detection) have been identified.
- Monthly TA5 working meetings on **implementations of machine learning concepts on FPGA** have been established. These meetings shall also be announced for other TAs. A meeting in person will further intensify collaborations in this field.

## Updates from WPs:

- TA5-WP1: A new person has been hired at Bielefeld focusing mainly on this WP
  - TA5-WP2: Activities related to FPGAs are also related to a deliverable within WP2
  - TA5-WP3: Protocols for dynamic filtering/archiving to be investigated for testing concepts for metadata
  - TA5-WP4: Regular biweekly meetings, one focus on performance tests for large metadata
  - TA5-WP5: Validation of processing of data streams might also be reflected in extended metadata
- **New meeting time to be discussed**

# Some conclusions

Efforts related to FPGA developments in TA5 are recognized by other Tas.

Presentations of some recent developments within PUNCH represent a useful set of resources, also for newcomers

Collaboration should be intensified:

- Regular Zoom meetings (established for TA5-WP4)

- Extra in-person meetings to make progress in overarching topics

Metadata:

- Term not precisely defined (across PUNCH and across NFDI)

- Concepts for metadata are essential for F.A.I.R. principles ➔ **next TA5 meeting on 13/10/**

Publications in Zenodo:

Number and quality of publication is expected to be an important indicator for second round of funding.