

REPORT FROM TA 5

Overall:

- Working group meetings on utilization of FPGAs:
 - <https://indico.desy.de/event/36532/>
- HLS4ML workshop Nov 24: Online hands-on tutorial
 - <https://indico.desy.de/event/36815/>
- Focus of work on document for metadata concept
 - Hierarchical & dynamic metadata scheme
 - Relevant use cases and references included
- Some contributions to metadata document delayed
- Evaluating/documenting existing solutions for processing of metadata under real-time conditions

Status of deliverables:

- **D-TA5-WP2-1: Curation & metadata schemes for dynamic filtering**
- D-TA5-WP2-2: Strategy concept for identifying highly complex (multi-parametric) signals in huge data streams.

WP status :

- WP2: Regular meetings (bi-weekly)
- WP4: Regular meetings (bi-weekly)

Regular meeting slots + INDICO for TA & WPs:

<https://indico.desy.de/category/893/>

TA5 meeting time Thursday 9-10 (monthly)

TA5-WP4 meeting time Wednesday 11-12 (monthly)

TA5-WP2 FPGA meetings Monday 11:30 - 13:00 (monthly)

Connection to institutes

- TA5-WP1 (Implications for discovery potential and reproducibility): FZJ, HTW, MPIfR, UBiel, UHeid
- TA5-WP2 (Dynamic filtering): DESY-HH, FIAS, MPIfR, TUDo, TUDd, UHeid, UMainz
- TA5-WP3 (Dynamic archiving): DESY-Z, HTW, MPIfR, UBiel
- TA5-WP4 (Scaling workflows): FIAS, FZJ, HTW
- TA5-WP5 (Evaluation and validation of instrument response & characteristics): MPIfR, TUDo, TUDd, UHeid

People employed for TA (with institute / FTE fraction)

- M. Sowinski employed by Jülich (0.5 PhD position, contributing also to TA3)
- J. Voigt at Dresden
- V. Lenok at Bielefeld
- Andrei Kazantsev at Bonn (1 FTE)
- Tanumoy Saha as Postdoc at HTW Berlin