

Architects Forum, July 2019

G Ganis, EP-SFT

Workshop on Software for Future Colliders

- Organization, Location, dates: INFN, Bologna, 12-13 June 2019
- Purpose: investigate the possibilities to have a common software stack for future collider activities
- Attendees:
 - About 30
 - All currently proposed future collider activities represented: CLIC, ILC, FCC, CEPC/SppC
 - LHC also represented
- [Agenda](#)
 - Presentations of existing frameworks and common tools widely used
 - Very constructive and open discussion

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Workshop on Software for Future Colliders

- Consensus reached on the following items:
 - Investigate the possibility to have a common event data model for all future collider activities, and possibly Open Data (**EDM4HEP**)
 - Based on PODIO; aggressive time scale (3-6 months)
 - Contribute to the development of a Common TurnKey Software Stack (**Key4HEP**)
- Agreed to have a simple managing scheme with a small group of facilitators to steer the development ensuring the collaboration by all interested communities
- Full [summary document](#)

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AIDA Software Eol

- [Face-To-Face meeting](#) on 16-17 June at CERN
- 5 Eol prepared
 - Turnkey Stack (CERN, DESY, IHEP)
 - Fast Simulation (CERN, DESY, INFN, Univ Manchester)
 - Digitisation in DD4hep (CERN, Novosibirsk)
 - Further developments in PODIO (CERN, DESY)
 - Tracking reconstruction (ACTS) (CERN DESY, LAL)
- Two additional other prepared by INFN on dual readout calorimeter reconstruction

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Today's topic

- TurnKey Software Stack vision
- One of the EP strategic software R&D items
- Fostered by the Bologna meeting, subject of an AIDA EoI

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Forthcoming events

- [EPS-HEP 2019](#), 10-17 July 2019, Ghent, Belgium
- [Lepton-Photon 2019](#), 5-10 August 2019, Toronto , Canada
- [Geant 4 Collaboration meeting](#), 23-27 September 2019, JLab, US
- [HEPIX Fall 2019](#), Nikhef, 14-18 October 2019
- [CHEP 2019](#), 4-8 November 2019, Adelaide, Australia
 - [Topical WLCG/HSF workshop on Analysis](#), 2-3 Nov 2019, Adelaide, Australia

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Minutes, Next meetings

- Minutes of the last meeting available at <http://ep-dep-sft.web.cern.ch/AFMinutes>
- No meeting in August
- Tentative dates for next season (September 2019 - July 2020) communicated soon

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