



HSF Working Groups and Training

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HEP Software Foundation Working Groups

- The HEP Software Foundation currently has 8 working groups
 - Model established after the publication of the Community White Paper in 2017
 - 3 convenors, aim for broad representation across the field
 - Report on interesting and common work being done
 - Forum for technical comments and discussion
 - Encourage cooperation across experiments and regions

HEP Software Foundation Working Groups

- Some working groups are very focused on a general aspect of a part of the HEP software workflow
 - Event Generators
 - Detector Simulation
 - Reconstruction and Software Triggers
 - Analysis
- Others deal with technical matters in a more focused area
 - Frameworks
 - Software Tools and Packaging
- Still others are even more cross-cutting, covering an area with broad applicability
 - PyHEP - Python now ubiquitous in HEP, appearing in almost all areas
 - Training - As described by Sudhir, is a *prima facie* case for cross-experiment, multi-domain activity

Working Groups and Training

N.B. this lists training that we know, often not organised under the auspices of the HSF; this is certainly far from complete!

- Event Generation
 - HEP summer schools and [MC Net](#) schools
- Detector Simulation
 - Geant4 collaboration [training events](#)
- Reconstruction and Software Triggers
 - Experiment training, [ISOTDAQ](#), other HEP summer school
- Analysis
 - Experiment training (CMS DAS, ATLAS Software Tutorial, LHCb/ALICE Starter Kit), ROOT Training (inc. Train the Trainer), PyHEP tutorials

Working Groups and Training

- Frameworks
 - Experiment training and documentation mainly?
 - Software Tools and Packaging
 - Didactic aspect to many of the WG meetings, but also dedicated “demo” meetings of new tools and techniques - N.B. very useful cross-experiment activity
 - Lab based training (CERN openlab, FNAL events, etc..)
 - PyHEP
 - Many didactic talks, Module of the Month, PyHEP Workshops
- *Lots going on then, with many opportunities as well to extend training, develop new material, work more cross-experiment, etc.*
- *What can we do to incentivise and increase rewards for training; while also lowering any barriers to contributions*

Summary

- One of the main goals of the HSF is sharing of (technical) solutions and knowledge
- Naturally all WGs thus do training of various kinds
- One role of the Training WG is to help with these efforts, sort them a bit and make sure that we get a consistent picture across the field