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Software Training in HEP

Among the upgrades in current high energy physics (HEP) experiments and the new facilities coming online, solving software challenges has become integral for the success of the collaborations, and the demand for human resources highly-skilled in both HEP and software domains is increasing. With a highly distributed environment in human resources, the sustainability of the HEP ecosystem requires a continuous effort in the equipment of physicists with the required abilities in software development.

In this talk, the collective software training program in HEP and its activities led by the HEP Software Foundation (HSF) and the Institute for Research and Innovation in Software in HEP (IRIS-HEP) are presented. Experiment-agnostic, open, and accessible modules for training are under development, focusing on common software material with ranges from core software skills needed by everyone to advanced training required to produce high-quality sustainable software. A basic software curriculum was built, and an introductory software training event has been prepared to serve HEP entrants. This program serves individuals with transferable skills that are becoming increasingly important to careers in the realm of software and computing, whether inside or outside HEP.

Significance

The HEP Software Foundation and the IRIS-HEP have successfully organized a series of training events for newcomers in the HEP experiments in collaboration with the Software Carpentries. Material is free and available for every single student in the community.

References

<https://indico.cern.ch/event/948465/contributions/4323647/>
<https://arxiv.org/abs/2103.00659>

Speaker time zone

Compatible with Europe

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