

Building Software Communities in HEP

The HSF Experience

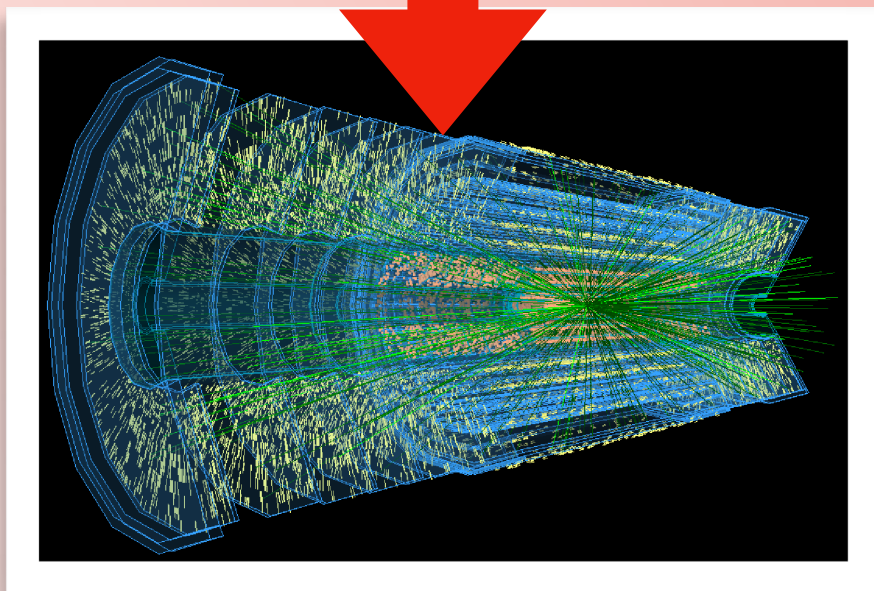


Graeme Stewart <graeme.andrew.stewart@desy.de>

Why?

High luminosity LHC will bring unprecedented collision rates and event complexity

Event rate $\times$ complexity = software challenge



How?

Encourage exchange of information between experiment experts

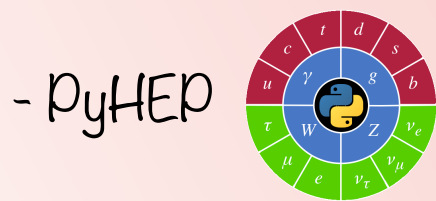
- HSF Seminars
- Workshops

Advocate for software at the highest levels: ECFA, EPPSU, LHCC

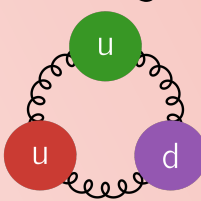
Build software training

Successes

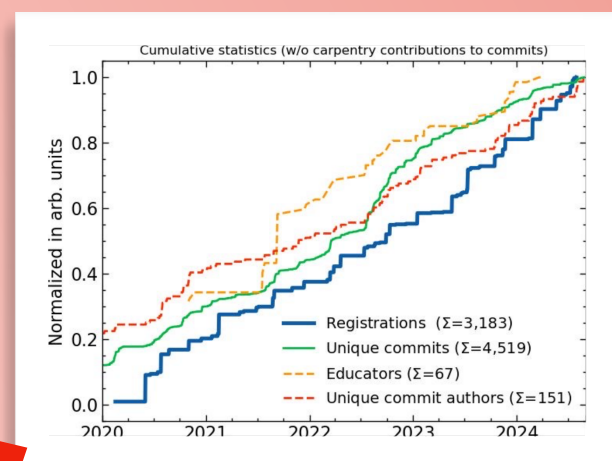
- Areas where the community was not previously organised



- PyHEP and JuliaHEP



- Thousands of students joined our training events
- EPPSU paper on **Critical Importance of Software for HEP** endorsed by ALICE, ATLAS, Belle II, CMS, DUNE, ePIC, LHCb, MCnet, WLCG
- Affiliated software projects



Want to know more?
Got good software ideas? Want to reach other users and experiments?
Join In!



<https://hepsoftwarefoundation.org/>