GSoC Update

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(on behalf of the HSF GSoC admins)

Timeline of 2024

- Jan 29-21:   Organizations apply
- Feb 21:   Accepted Organizations Announced
- April 2:   Students application deadline
- April 24:   Organizations rank and request slots
- **May 1:**   **Google announces selected projects**
- May 27:   Projects start
- July 12:   Midterm evaluation
- Aug 26:   Final evaluation
- Nov 14:   Program End Date

Project Proposals and Selection

- Initially 29 project ideas by 36 mentors from 10 participating HEP organizations and institutes
- Received 63 proposals and initially (*) ranked 23 of them
- We got **19 slots allocated** by Google
  - 2 more than last year but almost a *factor of 2* away from our maximum before Covid

- One annoying technical issue on the way
  - CERN-managed Google accounts **cannot** be used for GSoC
- Overall 1218 projects in 195 organizations
- Selection conflicts easy to resolve this year
  - We lost one candidate towards another organization; Google gave us a replacement slot

(*) one participant withdrew later

EP-SFT involvement in project supervision

Our group is (co-) supervising 7 of the 19 projects:

- [Machine Learning in Julia for Calorimeter Showers](#) (Daniel Regado)
    - supervised by Piyush Raikwar, Pere Mato, Graeme Stewart
- [STL/Eigen - Automatic conversion and plugins for Python based ML-backends](#) (Khushiyant Chauhan)
    - supervised by Vassil Vassilev, Jonas Rembser, Wim Lavrijsen, Aaron Jomy
- [Geant4-FastSim - Fast inference of Diffusion models](#) (Mikołaj Piórczynsk)
    - supervised by Piyush Raikwar
- [Superbuilds for ROOT](#) (Pavlo Svirin)
    - supervised by Vassil Vassilev, Danilo Piparo
- [Julia interoperating with HEP C++ libraries](#) (Yash Solanki)
    - supervised by Pere Mato, Philippe Gras
- [CVMFS: Benchmarking of new FUSE features](#) (Yuriy Belikov)
    - supervised by Valentin Volkl
- [SOFIE Developments - Inference Code Generation for Deep Learning models](#) (Vedant Mehra)
    - supervised by Neel Shah, Sanjiban Sengupta, Lorenzo Moneta