JuliaHEP WG Meeting
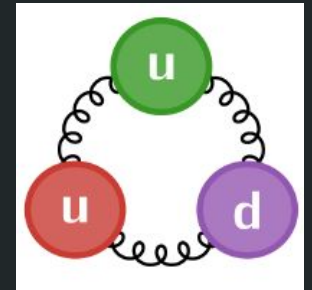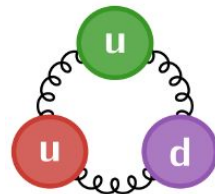
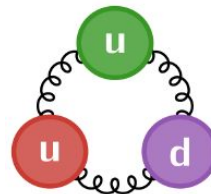# JuliaHEP WG

- The JuliaHEP HSF working group, created after CHEP 2023, brings together a community of developers and users of Julia in Particle Physics, with the aim of improving the sharing of knowledge and expertise, as well as unify effort in developing Julia packages useful for the community
- The kick-off for the WG was the JuliaHEP 2023 Workshop in Erlangen
- We plan to have monthly topical meetings
  - JuliaHEP WG Meeting - 14-12-2023
- Everyone is welcome to join the community, and participate and contribute to the WG meetings
- The JuliaHEP website

JuliaHEP News

- [JuliaCon 2024 - July 9th-13th](#)
  - Minisymposiums:
    - [Julia for High-Performance Computing](#)
    - [Scientific Data](#)
- [Google Summer of Code 2024](#)
  - [Google Summer of Code](#) is a program that allows students to contribute to the development of open-source projects, mentored by participating organizations.
  - GSoC 2024 projects related to JuliaHEP
    - [Julia interoperating with HEP C++ libraries](#) (Pere Mato and Philippe Gras)
    - [Machine Learning in Julia for Calorimeter Showers](#) (Graeme Stewart, Pere Mato and Piyush Raikwar)

HEP Software Foundation

JuliaHEP News

- **Recent papers:**
  - [PartonDensity.jl: a novel parton density determination code](#) (F. Capel, R Aggarwal, M. Botje, A. Caldwell, O. Schulz and A. Verbytskyi)
  - [Principal Landau Determinants](#) (C. Fevola, S. Mizera and S. Telen) **Landau.jl - PLD.jl**
- **Events**
  - JuliaHEP 2024 Workshop at CERN in October
  - Julia Training event