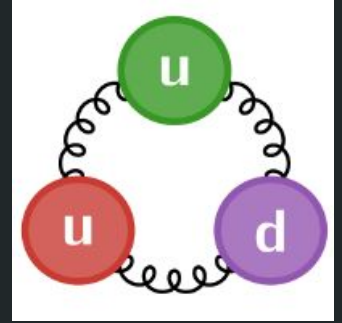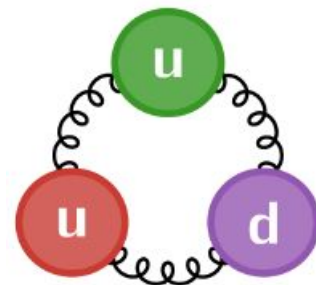# Welcome to the JuliaHEP 2024 Workshop

Graeme Stewart and Pere Mato

2024-09-30

Welcome

- Welcome to the second JuliaHEP workshop
  - Especially for the people not connected to CERN, we wish you an enjoyable stay with us at CERN
  - This year CERN celebrating its 70th anniversary!
- We aim to explore together what the Julia Language can bring to scientific computing for High Energy Physics
  - Essential for processing and analysing the massive datasets from experiments, as well as complex simulations and theoretical modeling

Programme

- We have divided the WS in two blocks:
  - Monday to Tuesday: presentations of current status and achievements
    - TH Auditorium (here)
    - Speakers should upload slides to Indico (ask for help in case of difficulty)
  - Wednesday to Friday: tutorials, hands-ons and hackathons
    - IdeaSquare (close to the Globe/Science Gateway)
    - Limited the number of participants to 50 people
    - Tutorials/hands-on: Julia for Physics, GPU programming with Julia
- Two keynote seminars
  - *Julia in High-Energy Physics: a paradigm shift or just another tool?* U.Hernandez-Acosta, Tuesday@16:30 (here)
  - *Julia as a Statically-Compiled Language* J. Bezanson Thursday@14:00 (222/R-001)

    https://indico.cern.ch/event/1410341/timetable/#all.detailed

Julia Slack

- Julia has a very friendly and active community
- If you are not registered on their Slack already then we do recommend that you do so
  - https://julialang.org/slack/
- Many of us are active on the #hep channel there
  - We very much encourage you to ask questions and engage in discussions there
  - Both through the workshop and beyond!

Practical Information

- CERN Access badges
  - Will be needed for entering and existing the site (IdeaSquare is outside)
  - Entrance B (main) needs to be used for Visitor Access
- Workshop badges are available for ease identification among us
  - At the end of the WS we can recycle them to reduce waste
- Breaks
  - Coffee breaks will be served here (TH auditorium) and at the IdeaSquare
  - Lunch breaks in CERN Restaurants (closer is R1)
- Code of Conduct
  - In summary, have constructive discussions, be nice!

There is an official diplomatic event on Tuesday to celebrate CERN@70 - if you are staying off site please allow extra travel time tomorrow.

IdeaSquare

Entrance B

TH Auditorium

Restaurant 1

Building 222

6