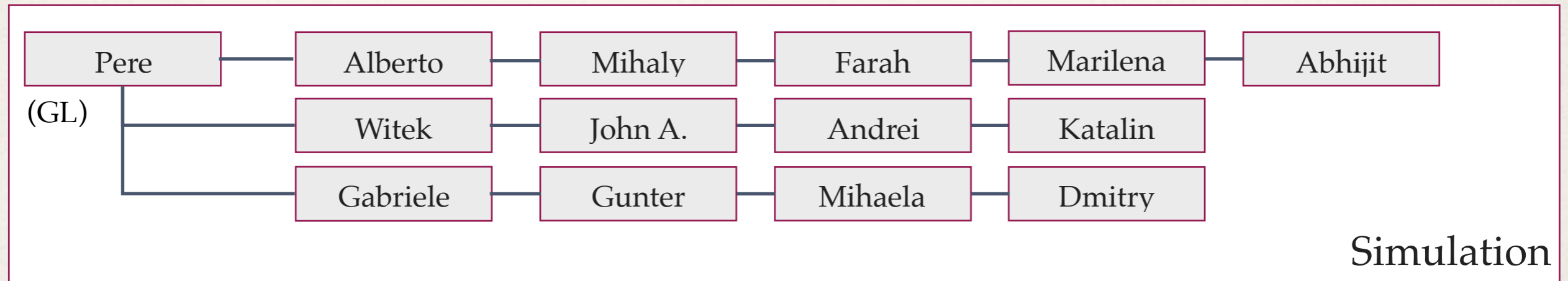


SFT News

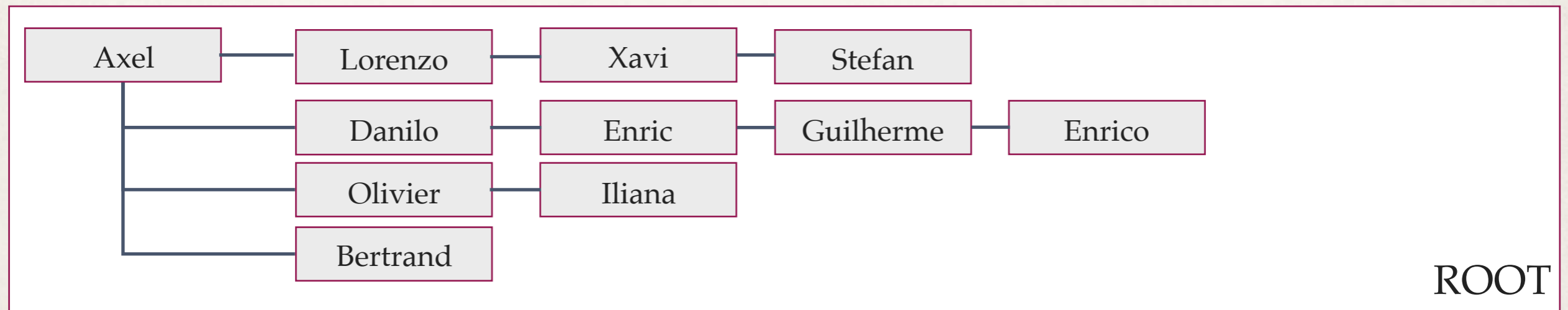
Group Meeting, 2 July 2018

Date

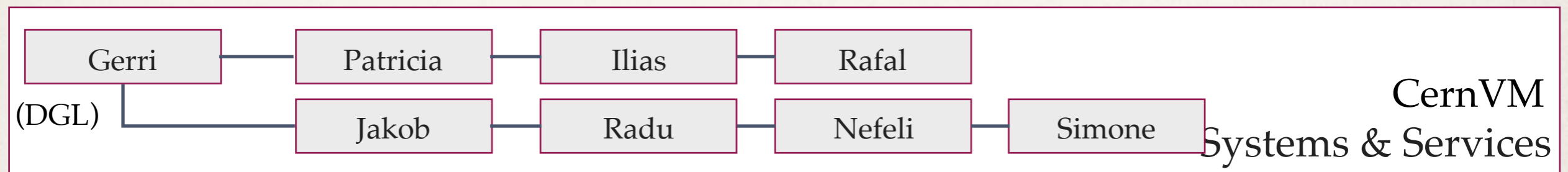
SFT Organization



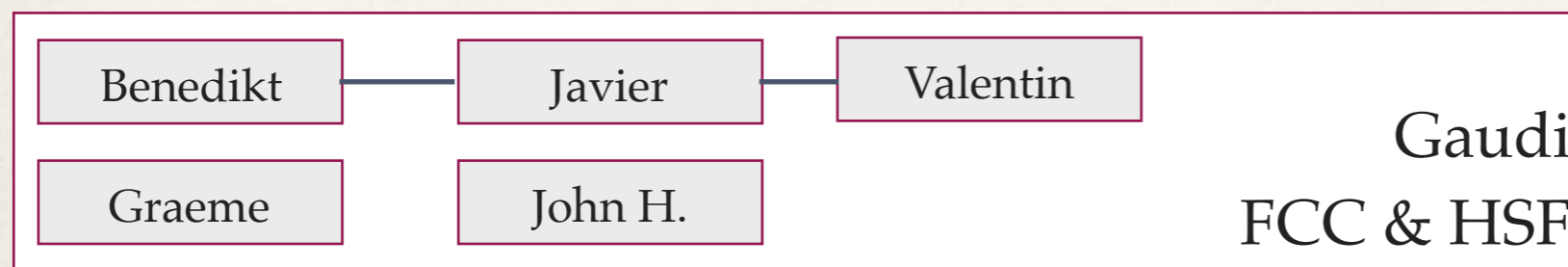
Simulation



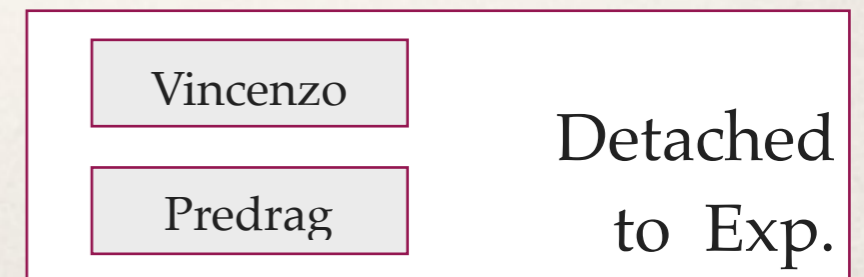
ROOT



CernVM
Systems & Services



Gaudi
FCC & HSF



Detached
to Exp.

Personnel Movements

- ❖ Emil Obreshkov is starting today as staff
 - ❖ His main function is ATLAS librarian
- ❖ Benedikt Hegner will be leaving the group (and CERN) end of August
 - ❖ He will be joining the Brookhaven National Laboratory (USA)
- ❖ All Summer Students have arrived

| | | |
|------------|-------------------|------------------------------|
| FREYERMUTH | Luc Alexandre | KONSTANTINOV, Dmitry Mr. |
| CHELARESCU | Paul Constantin | CERVANTES VILLANUEVA, Javier |
| TEUBER | Paul Samuel Maria | BLOMER, Jakob Johannes Dr. |
| DOBRESCU | Alexandra-Maria | NAUMANN, Axel Dr. |
| STEFAN | Tomas | STEWART, Graeme Andrew Dr. |
| TUMOLO | Massimo | PIPARO, Danilo Dr. |
| DOSARU | Daniel-Florin | POPESCU, Radu Dr. |
| UZAIR | Mohammad | MONETA, Lorenzo Dr. |

EP R&D News

- ❖ On behalf of WG7 (Software) core group, Graeme and Jakob submitted the project sheets for the 6 proposals (deliverables, milestones and resource requests)
 - ❖ Turnkey software for future experiments
 - ❖ Faster Simulation
 - ❖ An Efficient Analysis Facility
 - ❖ Multi-Experiment Data Management
 - ❖ Reconstruction for High Particle Multiplicity Environments
 - ❖ Frameworks for Heterogenous Computing
- ❖ Next step is to start writing the R&D Report
 - ❖ Software R&D will be one chapter

KT News

- ❖ Developing a proposal for the Israeli Innovation Authority with the All-in-Image company (Big Data Services for Medical and Security applications)
 - ❖ ML in a Box (SWAN on premises)
 - ❖ Possible funding of a Fellow
- ❖ Meeting last week with Zenuity (company created by Volvo in order to develop **autonomous vehicle driving systems**). Interested in improving ability to use ML to analyse the data they get from cars
 - ❖ The group made 2 presentations
 - ❖ Lorenzo: ROOT and its ML capabilities. Interested in the TTree data structures
 - ❖ Marilena: G4 main features
 - ❖ KT thanked our contribution in the effort to engage industry in order to disseminate our technologies and expertise

CHEP Rehearsals

❖ <https://indico.cern.ch/event/736011/>

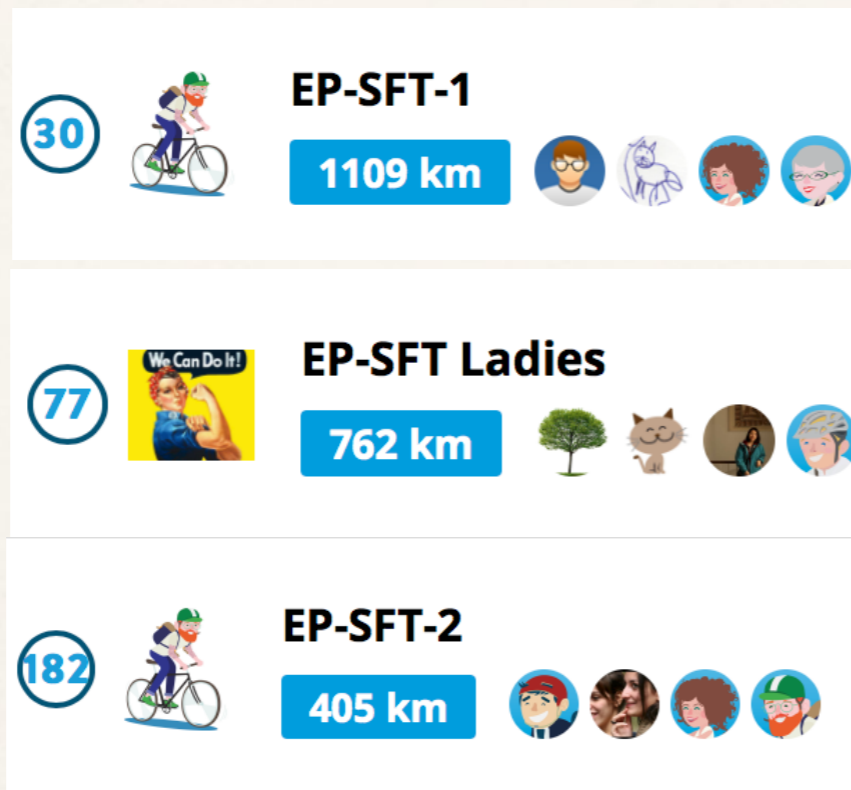
| 2 Jul 2018 | | 3 Jul 2018 | | 4 Jul 2018 | |
|------------|-------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------|
| 10:00 | Session 2 (until 13:00) (32-1-A24) | 09:00 | Session 3 (until 13:00) (32-1-A24) | | |
| 10:00 | Towards a responsive CernVM-FS architecture - Radu Popescu (CERN) (32-1-A24) | 09:00 | Towards a Serverless CernVM-FS - Jakob Blomer (CERN) (32-1-A24) | | |
| 10:45 | New Machine Learning Developments in ROOT/TMVA - Kim Albertsson (Lulea University of Technology (SE)) (32-1-A24) | 09:45 | GeantV - Andrei Gheata (CERN) (32-1-A24) | | |
| 11:15 | Writing ROOT Data in Parallel with TBufferMerger - Guilherme Amadio (CERN) (32-1-A24) | 10:30 | PyROOT (PyHEP) - Enric Tejedor Saavedra (CERN) (32-1-A24) | | |
| | | 11:15 | SWAN's New Developments - Enric Tejedor Saavedra (CERN) (32-1-A24) | | |
| | | 11:45 | A Distribution Vector for the HEP Analysis Ecosystem - Danilo Piparo (CERN) (32-1-A24) | | |
| | | 14:00 | Session 4 (until 17:30) (53-R-012) | 16:00 | Session 1 (until 18:00) (32-1-A24) |
| | | 14:30 | Robust Linux Binaries - Guilherme Amadio (CERN) (53-R-012) | 16:00 | Oksana: Continuous Performance Benchmarking Framework for ROOT (poster) (32-1-A24) |
| | | 15:00 | Extending ROOT through Modules - Oksana Shadura (University of Nebraska Lincoln (US)) (53-R-012) | 16:30 | Yuka (32-1-A24) |
| | | 15:30 | RDataFrame: Easy Parallel ROOT Analysis at 100 Threads - Enrico Guiraud (CERN, University of Oldenburg (DE)) (53-R-012) | 17:00 | Axel (32-1-A24) |
| | | 16:00 | Supporting Future HEP Data Processing with a Parallelised ROOT - Danilo Piparo (CERN) (53-R-012) | 17:30 | Lorenzo (32-1-A24) |
| | | 16:30 | Towards full electromagnetic physics vectorization in the GeantV transport framework - Marilena Bandieramonte (CERN) (53-R-012) | | |
| | | 17:00 | Beautiful, simple and remote ROOT graphics and GUI - Serguei Linev (GSI - Helmholtzzentrum für Schwerionenforschung GmbH (DE)) (53-R-012) | | |

SFT Secretariat

- ❖ Cinzia is working physically at the ALICE secretariat:
 - ❖ Mondays pm from 14.00 until 18.00
 - ❖ Tuesdays pm from 13.30 until 17.30
 - ❖ Thursdays all day from 8.30 until 12.30 and 13.30 till 17.30
- ❖ She remains reachable by phone and respond to e-mails in case of necessity
- ❖ Cinzia will be on holidays starting July 16th for 2 weeks
 - ❖ Reimbursements for the CHEP travel expenses will be delayed until she returns

Bike-to-Work

- ❖ CERN has had 248 teams (consisting of 4 people) inscribed this year
 - ❖ A total of 168096 km has been cycled
- ❖ 3 teams from the SFT group



Congratulations!!