# Welcome and Workshop Goals

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# Introduction

The growth in computing needs for HEP by HL-LHC will outpace technology evolution improvements, leaving a significant resource gap.

- CERN and the LHC experiments are looking at new techniques and new computing resources

High Performance Computing offers very promising opportunities

- Enormous capacities, accelerated architectures, and unique expertise

Today we discuss PRACE's mission, infrastructure, access, training and support and on HEP experiments' experience and plans for HPC

# Goals

- Learn how PRACE works and how we can interact together
- Understand mechanisms for resource allocation, scheduling, I/O and data serving , authentication and authorization, and firewalls
- Understand the interactions of PRACE with other EU HPC initiatives
- Understand PRACE plans for the next generation of hardware deployments
- Understand how all of these elements impact the scientific use-cases

- Understand how HEP software and best exploit HPC resources
- Present the current experience of the experiments on HPC
- Discuss what changes on the infrastructure and the workflows could be the most beneficial to efficiently working together

# Agenda and Logistics

- The agenda is very full. Please stay in the allocated time and allow some discussion at the end of each talk
- We have reserved an hour at the end of the day for discussion, though hopefully the meeting can be very interactive
- Lunch is self-organized from 12:15 to 13:30
- Coffee is served in the coffee area outside