Contribution ID: **26** Type: **Oral**

High Energy Physics computing for the next decade

Thursday, 26 May 2022 11:10 (15 minutes)

The next 10 years will be exciting for High Energy Physics, with new experiments entering data taking (High Luminosity LHC) or being designed and eventually approved (FCC, CEPC, ILC, MU_COLL). In all the cases, the computing infrastructures, including the software stacks for selection, simulation, reconstruction and analyses, will be crucial for the success of the physics programs. Many directions are being explored by the community, like heterogeneous computing for the most time-critical tasks, and AI inspired techniques to squeeze the ultimate performance and in order to match reasonable resource budgets.
The contribution wants to address the landscape and the state-of-the-art in the field, highlighting the strong and weak points, and the aspects which still need sizeable R&D.

Collaboration

Primary author: BOCCALI, Tommaso (Istituto Nazionale di Fisica Nucleare)

Presenter: BOCCALI, Tommaso (Istituto Nazionale di Fisica Nucleare)

Session Classification: Front End, Trigger, DAQ and Data Mangement