



Contribution ID: 69

Type: Oral

Integration and Performance of New Technologies in the CMS Simulation

Tuesday, November 5, 2019 11:45 AM (15 minutes)

The HL-LHC and the corresponding detector upgrades for the CMS experiment will present extreme challenges for the full simulation. In particular, increased precision in models of physics processes may be required for accurate reproduction of particle shower measurements from the upcoming High Granularity Calorimeter. The CPU performance impacts of several proposed physics models will be discussed. There are several ongoing research and development efforts to make efficient use of new computing architectures and high performance computing systems for simulation. The integration of these new R&D products in the CMS software framework and corresponding CPU performance improvements will be presented.

Consider for promotion

Yes

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Session Classification: Track 2 – Offline Computing

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