

New Computing and Software Frontiers in Particle Physics

Friday 18 November 2022 09:00 (50 minutes)

CERN's Large Hadron Collider has just started Run 3 of data collection. And in 2029 it will commence the High-Luminosity (HL-LHC) phase of running - expected to last almost a decade. The amount of data collected during the HL-LHC is unprecedented in High Energy Physics. Collecting, processing, calibrating and analyzing that volume of data to the precision required is forcing the community to reevaluate many of its current paradigms.

The Community Whitepaper Process was started in 2017 to gather grassroots solutions to the problems facing the field, and that led to a strategic plan in 2019. Many organizations around the world, like IRIS-HEP, were funded around that strategic plan. Now, almost 5 years later, the strategic plan is being updated. This talk will discuss some of the forces forcing us to modernize how we process data, the progress we've made since 2017, and where we go from here. Particular attention will be paid to how the process enables the global participation of groups small and large.

Poster fallback option for rejected abstracts for parallel oral presentations

Does not apply

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