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APRIL : a novel Algorithm for Particle Reconstruction at ILC.

Thursday 28 November 2019 16:20 (20 minutes)

The current developments for future electron-positron colliders are driven by the Particle Flow concept. In these developments, high granularity calorimeters play a central role. This presentation will focus on a new Particle Flow Algorithme (PFA) developed for high granularity calorimeters, and especially for the Semi-Digital Hadronic CALorimeter (SDHCAL) option of the International Large Detector (ILD) project. The first PFA for ILD was PandoraPFA. This new PFA (APRIL) is based on the PandoraPFA Software Development Kit, but implements a different clustering inspired from the ARBOR PFA approach. The presentation will describe briefly the APRIL algorithm and discuss its performance against that of PandoraPFA.

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