

Status of Segmented Crystal ECAL Simulation – Dec 2023

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- IDEA detector note section on segmented crystal ECAL written
- Migration to ddsim runner and key4 base packages WIP
- Several subdetector groups having trouble with memory constraints in scaling up to full granularity simulations
- Received optimization suggestions from dd4hep developers and currently implementing those changes
 - Detail: wrapper “assembly volume” for individual crystals are too granular, try grouping together into ”orange slices”
 - Internal conversion from dd4hep to geant4 introduces overhead