Contribution ID: **42** Type: **Oral presentation using Zoom**

EDM4hep - The event data model for future collider studies

Thursday 28 October 2021 19:25 (20 minutes)

The Event Data Model (EDM) is at the heart of every HEP experiment software framework. It defines the language physicists can use to express their ideas and also how different software components communicate with each other. The Key4hep project aims to develop a common software stack for all future collider projects. As the common EDM for all these projects, EDM4hep is one of the corner stones of the Key4hep project. EDM4hep is implemented via the podio EDM toolkit and a prototype version, based on LCIO, has been designed. We will present some of the technical details of the implementation of EDM4hep and podio. Based on that we will discuss some of the similarities and differences between EDM4hep and LCIO. We will highlight some experiences with the usage of EDM4hep in the Key4hep framework and give an outline for future plans.

1st preferred time slot for your oral presentation

15:30-17:30 JST (8:30-10:30 CEST, 2:30-4:30 EDT, 23:30-1:30 PDT)

2nd preferred time slot for your oral presentation

19:00-21:00 JST (12:00-14:00 CEST, 6:00-8:00 EDT, 3:00-5:00 PDT)

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Session Classification: A-1: Software / Computing

Track Classification: Parallel sessions: Detectors: Session A: Software / Computing