Contribution ID: **29** Type: **Live Demo**

EVE - Event Visualization Environment of the ROOT framework

EVE is a high-level environment using ROOT's data-processing, GUI and OpenGL interfaces. It can serve as a framework for object management offering hierarhical data organization, object interaction and visualization via GUI and OpenGL representations and automatic creation of 2D projected views. On the other hand, it can serve as a toolkit satisfying most HEP requirements, allowing visualization of geometry, simulated and reconstructed data such as hits, clusters, tracks and calorimeter information. Special classes are available for visualization of raw-data. EVE is used in the ALICE experiment as the standard visualization tool, AliEVE, using the full feature set of the environment. In the CMS experiment, EVE is used as the underlying toolkit of the cmsShow physics-analysis oriented event-display. Both AliEVE and cmsShow are also used for the online data-quality monitoring.

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Track Classification: 2. Data Analysis