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Hands-On: Silicon Detector Monte-Carlo Simulations with Allpix Squared

Tuesday 28 January 2020 13:30 (2h 30m)

Scope of the Tutorial

This tutorial will provide an insight into different functionalities of the Allpix Squared simulation framework. We will not start from zero, and some prior knowledge is required, i.e. the participants should be familiar with the very basic concepts of the framework (how to configure a simulation, how to set up the detector geometry…).
We will look into using electric fields from finite element simulations, how to use weighting potentials to get time-resolved simulations, and explore some other not-so-obvious features.

Preparation

Please install the latest release version of Allpix Squared on your computer or make sure you have access to a working version online before attending the tutorial.

Detailed instructions can be found in the manual or on the website (https://cern.ch/allpix-squared)
The recommended option for this tutorial is to install the Docker image prior to arriving at the workshop venue.

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Session Classification: Hands-on tutorials