



Contribution ID: 9

Type: **not specified**

# Allpix Squared in Education & Outreach

*Tuesday 17 August 2021 16:30 (20 minutes)*

Allpix Squared has become a powerful tool for studying and understanding complex silicon detectors. At the same time, the simple set up of simulation flows, the possibilities of visualising among others the charge carrier motion, the wide application range and the good availability of the software via e.g. CVMFS and local installations make the framework a valuable tool also for educational and outreach activities.

Over the past years, Allpix Squared has thus been used for university lab courses and research schools, with the goal of understanding the signal generation in silicon detectors as well as the possibilities to improve performance parameters such as the sensor resolution. In addition, the software has been used for the replication of complex test beam based experiments, e.g. within the context of the Beamline for Schools competition for high school students.

In this presentation, a few examples for the application of Allpix Squared in the fields of education and outreach are highlighted.

**Author:** SCHÜTZE, Paul (Deutsches Elektronen-Synchrotron (DE))

**Presenter:** SCHÜTZE, Paul (Deutsches Elektronen-Synchrotron (DE))

**Session Classification:** Welcome & Allpix Squared Overview

**Track Classification:** User applications & studies