

Dr. Frank Siegert

TU Dresden

frank.siegert@tu-dresden.de



– "Digital twins" of our collisions – Monte Carlo event generators

Tuesday, November 21st

Salle Curie | 16h30

[Indico webpage](#)

Background subtraction, detector performance, and interpretation of data: all of these are often impossible without simulated proton-proton collisions. Today we want to take a look at the particle physics of these simulations, how Monte Carlo methods can be used to build a fully realistic digital twin of proton-proton collisions, and how they are made available for ATLAS analyses.