

# SUMMER STUDENT LECTURE PROGRAMME

## 2022

Lecture Title

Particle Accelerators and Beam Dynamics

Lecturer's Name

Michaela Schaumann

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Short CV

2006-2011: Studies of Physics at the RWTH Aachen University, Germany  
2012-2015: Doctoral Student at the RWTH Aachen University and CERN  
2015: Dr. rer. nat, Thesis title: "Heavy-Ion Performance of the LHC and Future Colliders"  
2015-2018: CERN Fellowship, LHC operation  
2018-2021: Engineer in Charge for the operation of the LHC accelerator at CERN  
Since 2021: Accelerator Physicist for the operation of the PETRA III synchrotron light source at DESY

Pre-requisites:  
earlier series of lectures  
that the students  
should follow

None

Other pre-requisites

Basic concepts of physics i.e. mechanics and electromagnetism.