PhD Study Programm

Particle Physics 18 CP (ECTS)

Data 9 CP (ECTS)

Technology 15 CP (ECTS)

Particle Physics Phenomenology 3 CP

Applied Statistics 3 CP

Particle Accelerators physics 4,5 CP

Quantum Field Theory 6 CP

Applied Computational methods 3 CP

Particle Accelerators technology and applications 4.5 CP

Standard Model 6 CP

Big Data 3 CP

Particle Detectors 3 CP

Beyond Standard Model 3CP

Research Internship (at CERN?)

Radiation Safety3 CP

Student competences

Understanding of Particle Physics and Standard Model

Knowledge for further research beyond known at Standard Model

Basic Skills to Analyse and Interpret PP Experimental Data

Has Overview at PP tools – Accelerators, Detectors

Has Overview at Accelerator and Detector Design and Major Technologies

Has Insight at Accelerator Applications