Course: Tools for Particle Physics

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Requirements for participation:
Basic Knowledge in Atomic and Nuclear Physics and Quantum Mechanics

Type of module examinations:
One oral examination at the end of the module

Duration of the course:
1 semester

Aims of the course:
Study of concepts and methods used in particle physics experiments. The students should participate actively in the course.

Contents of the course:
- Physics principles in particle detection
- Accelerator concepts
- Charged and neutral particle detection
- Photon and hadron induced reactions
- Data analysis tools
- Cosmic particles
- Exotic atoms
- Spin offs and new concepts

Recommended literature:
Will be distributed during the course.