



LECTURE COURSE IN THE QUANTUM UNIVERSE RESEARCH SCHOOL

Summer Term 2022

Experiments on Physics beyond the Standard Model

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Course Description:

This lecture will provide an introduction of experimental aspects on physics beyond the Standard Model. The following topics will be covered:

- The shortcomings of the Standard Model
- Supersymmetry
- Grand Unified Theories
- Compositeness
- CP violation
- Exotic neutrinos
- Dark matter
- Axions
- Future colliders

Prerequisites:

Knowledge on particle physics on the level of a bachelor degree in physics is recommended, but not absolutely necessary.

Date and Place: Tue 11:00 – 12:30, SemRm 4064, Bahrenfeld
Fri 10:15– 11:00, SemRm 1076, Bahrenfeld

Problem Classes: Fri 11:00– 11:45, SemRm 1076, Bahrenfeld

Starting on: 5 April, 2022
