Introduction to String Phenomenology
Jan Louis

Course Description:
After a brief introduction/review of string theory the course aims at developing the connection between string theory, particle physics and cosmology. Concretely the following topics are covered:

- Introduction to string theory and its effective action,
- Calabi-Yau compactifications,
- Supersymmetry breaking and moduli stabilization,
- D-brane model building,
- Flux compactifications and generalized geometries
- Dualities among string theories, M-theory, F-theory
- String cosmology

Prerequisites:
Basic knowledge in particle physics, general relativity and quantum field theory. Basic knowledge in string theory is beneficial but not necessary.

Date and Place:
Fr, 11:00 – 12:30, SR 2/2a, Bldg. 2a, Campus Bahrenfeld
biweekly: Mon, 11:00 – 12:30, SR 2/2a, Bldg. 2a, Campus Bahrenfeld

Starting on: 16 Oct 2014