

Supersymmetry (T) - physics761

| <i>Course</i> | Supersymmetry (T) |
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| <i>Course No.</i> | physics761 |

| Category | Type | Language | Teaching hours | CP | Semester |
|----------|------------------------|----------|----------------|----|----------|
| Elective | Lecture with exercises | English | 3+1 | 6 | WT/ST |

Requirements for Participation: Quantum Field Theory I

Preparation:

Form of Testing and Examination: Individual Oral Examinations

Length of Course: 1 semester

Aims of the Course: Teach the students the basics of supersymmetric field theory and how it can be tested at the LHC.

Contents of the Course: Superfields; Supersymmetric Lagrangians; MSSM; Testing the MSSM at the LHC

Recommended Literature:

Theory and phenomenology of sparticles: An account of four-dimensional N=1 supersymmetry in high energy physics.

M. Drees, (Bonn U.) , R. Godbole, (Bangalore, Indian Inst. Sci.) , P. Roy, (Tata Inst.) . 2004. 555pp.

Hackensack, USA: World Scientific (2004) 555 p.

Weak scale supersymmetry: From superfields to scattering events.

H. Baer, (Florida State U.) , X. Tata, (Hawaii U.) . 2006. 537pp.

Cambridge, UK: Univ. Pr. (2006) 537 p.

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