

Elective Courses Theoretical Physics - ECThPhysics

| <i>Module No.</i> | ECThPhysics |
|---------------------------|--------------------|
| <i>Category</i> | Elective |
| <i>Credit Points (CP)</i> | 7 |
| <i>Semester</i> | 1. |

Module: Elective Courses Theoretical Physics

Module Elements:

| Nr | Course | Course No. | CP | Artkurz | Teaching hours | Semester |
|-----------|---|-------------------|-----------|------------------------|---------------------------|-----------------|
| 1 | Group Theory (T) | physics751 | 7 | Lect. + ex. | 3+2 | WT |
| 2 | General Relativity and Cosmology (T) | physics754 | 7 | Lect. + ex. | 3+2 | ST |
| 3 | Quantum Field Theory (T) | physics755 | 7 | Lect. + ex. | 3+2 | ST |
| 4 | Computational Physics (T) | physics760 | 7 | Lect. + ex. + proj. | 2+2+1 | WT/ST |
| 5 | Advanced Quantum Field Theory (T) | physics7501 | 7 | Lect. + ex. | 3+2 | WT |
| 6 | Advanced Quantum Theory | physics606 | 7 | Lect. + ex. | 3+2 | WT |

Requirements for Participation:

for physics606: none

for all other modules: physics606

Form of Examination: written examination

Content: see with the course

Aims/Skills: see with the course

Course achievement/Criteria for awarding cp's: successfull work with the exercises

Length of Module: 1 semester

Maximum Number of Participants: ca. 100

Registration Procedure: s. <https://basis.uni-bonn.de> u. <http://bamawww.physik.uni-bonn.de>

Note: at least 7 cp out of this area must be achieved