Specialization I - physics610

Module No.	**physics610**
Category	Elective
Credit Points (CP)	12
Semester	7.

Module: Specialization I

Module Elements:

Nr	Course	Course No.	CP	Artkurz	Teaching hours	Semester
1	Molecular Physics I	MolPhys I	6	Lect. + ex.	3+1	WT
2	Solid State Theory I	TheoSolidSt	6	Lect. + ex.	3+1	WT
3	Condensed Matter Physics I	CondMatter I	6	Lect. + ex.	3+1	WT
4	Advanced Atomic, Molecular, and Optical Physics	physics620	6	Lect. + ex.	3+1	WT
5	Particle Physics	physics611	6	Lect. + ex.	3+1	WT
6	Accelerator Physics	physics612	6	Lect. + ex.	3+1	WT
7	Physics of Particle Detectors	physics618	6	Lect. + ex.	3+1	WT
8	Condensed Matter Physics	physics613	6	Lect. + ex.	3+1	WT
9	Laser Physics and Nonlinear Optics	physics614	6	Lect. + ex.	3+1	WT
10	Applied Photonics	physics619	6	Lect. + ex.	3+1	WT
11	Theoretical Particle Physics	physics615	7	Lect. + ex.	3+2	WT
12	Theoretical Hadron Physics	physics616	7	Lect. + ex.	3+2	WT
13	Theoretical Condensed Matter Physics	physics617	7	Lect. + ex.	3+2	WT

Requirements:

Preparation: See with the description of the course

Content: Teaching of advanced fundamentals of physics from two research areas of physics in Bonn

Aims/Skills: The students will get acquainted with two research topics of today

Form of Testing and Examination: Requirements for the submodule examination (written or oral examination): successful work with 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: Note: The student must achieve 12 CP from two different specialization areas (Particle Physics; Condensed Matter and Photonics; Theoretical Physics)