Specialization II - physics630

Module No.	**physics630**
Category	Elective
Credit Points (CP)	12
Semester	8.

Module: Specialization II

Module Elements:

Nr	Course	Course No.	CP	Artkurz	Teaching hours	Semester
1	Advanced Topics in High Energy Particle Physics	physics639	6	Lect. + ex.	3+1	ST
2	Quantum Optics	physics631	6	Lect. + ex.	3+1	ST
3	Molecular Physics II	MolPhys II	6	Lect. + ex.	3+1	ST
4	Photonic Devices	physics640	6	Lect. + ex.	3+1	ST
5	Physics of Hadrons	physics632	6	Lect. + ex.	3+1	ST
6	High Energy Collider Physics	physics633	6	Lect. + ex.	3+1	ST
7	Magnetism/Superconductivity	physics634	6	Lect. + ex.	3+1	ST
8	Laser Spectroscopy	physics635	6	Lect. + ex.	3+1	ST
9	Advanced Theoretical Particle Physics	physics636	7	Lect. + ex.	3+2	ST
10	Advanced Theoretical Hadron Physics	physics637	7	Lect. + ex.	3+2	ST
11	Advanced Theoretical Condensed Matter Physics	physics638	7	Lect. + ex.	3+2	ST

Requirements:

Preparation:

Content: In depth knowledge on the basics of the research programme in physics at Bonn University

Aims/Skills: The students shall learn the basics as well as the present state of current research in the fields

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 one or two specialization areas.