Module title	**MScNano LAP Research Internship Laboratory Astrophysics**
Module type	Required elective module
Educational outcomes, competencies, qualification objectives	Students … have experienced practical training in methods that are typical for laboratory astrophysics ... gained insight into possible research topics in molecular physics and spectroscopy ... have an idea of the scientific approach and methodology of laboratory astrophysics **Integrated key competencies:** Communication competency: Students have developed communication skills in scientific expert discussions and are able to work in a research team Organisational competency: Students have learned the basics of project planning and management
Types of courses, contact hours	P i 10 SWS
Contents	Participation in an actual research project conducted in the research group of laboratory astrophysics Practical training in the laboratory or in theoretical methods relevant for molecular spectroscopy in astrophysics
Course titles	Research Internship laboratory astrophysics
Teaching methods	Laboratory work or theoretical work
Applicability	M.Sc. Nanoscience
Duration	4 weeks
Frequency	upon arrangement
Language	English
Recommended Skills	Fundamental knowledge in physics, especially on molecular spectroscopy on Bachelor level
Prerequisites for participation	none
Students workload	Contact time: 150 h, independent studies 30 h
Nongraded learning assignments (Studienleistungen)	(implied) Participation in a research project
Prerequisites for admission to examination	none
Examination	Written report or short presentation (talk or poster) on project
Number of credits	6 C (including 2 C for integrated key competencies)
Responsible coordinator	Giesen
Lecturer(s)	Giesen
Media	Laboratory equipment
Literature	Special literature in molecular spectroscopy, laboratory astrophysics and related journals