Module title	MScNano LAP Research Internship Laboratory Astrophysics
Module type	Required elective module
Educational outcomes, competencies,	Students
qualification objectives	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	(implied) Participation in a research project
(Studienieistungen)	
Prerequisites for admission to examination	none
Examination	Written report or chart presentation (talk or poster) on project
Number of credite	C (including 2 C for integrated key competencies)
Responsible coordinator	Giocon
Responsible coordinator	Glesen
Lecturer(s)	Giesen
Media	Laboratory equipment
Literature	Special literature in molecular spectroscopy, laboratory astrophysics and related
	iournals
Course titles Teaching methods Applicability Duration Frequency Language Recommended Skills Prerequisites for participation Students workload Nongraded learning assignments (Studienleistungen) Prerequisites for admission to examination Examination Number of credits Responsible coordinator Lecturer(s) Media Literature	Research Internship laboratory astrophysics         Laboratory work or theoretical work         M.Sc. Nanoscience         4 weeks         upon arrangement         English         Fundamental knowledge in physics, especially on molecular spectroscopy on Bachelor level         none         Contact time: 150 h, independent studies 30 h         (implied) Participation in a research project         none         Written report or short presentation (talk or poster) on project         6 C (including 2 C for integrated key competencies)         Giesen         Laboratory equipment         Special literature in molecular spectroscopy, laboratory astrophysics and related journals