

Study advice WS 2021/2022

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<http://www.physik-astro.uni-bonn.de/>

Study advice

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see:

<http://bamaww.physik.uni-bonn.de>

or also

[http://www.physik-astro.uni-bonn.de/studies-de/
mitteilungen-des-pruefungsamtes](http://www.physik-astro.uni-bonn.de/studies-de/mitteilungen-des-pruefungsamtes)

In particular note the **“CORONA-peculiarities”** !!!

Courses during “CORONA”

- 1 Information on whether a course announced in the course catalogue will take place in the winter term will be successively supplemented in the online course book (http://www.physik-astro.uni-bonn.de/?set_language=en: Home → Teaching).
- 2 For each course that is contained in “Basis” (i.e. everything that is listed in the course book) the university set up an eCampus site. **Physics Courses:** https://ecampus.uni-bonn.de/goto_ecampus_cat_2245133.html
- 3 The format (“live” / “hybrid” / “on-line”) offered, including the exercises / tutorials, will be communicated via this eCampus site.
- 4 **Important:** students must **register in eCampus each and every course** in which they wish to participate. The “preparatory meeting” (usually in the first lecturing hour), where information on the organisation of a course is given and, if applicable, e.g. tutorial groups are set up, will be organised via eCampus, especially in case of an online course format.
- 5 **Attention:** Registration on eCampus does not later replace registration in Basis for the module examination within the stipulated deadline. C.f. overview table <https://web3.physik.uni-bonn.de/bsc/termine.php>, and information regarding examination procedures and application for admission to the Bachelor or Master examination.

Overview Master in Physics

Master of Physics										
Rheinische Friedrich-Wilhelms-Universität Bonn										
(valid from WS 2014/2015)										
		Course Phase								
		Compulsory		Elective						
1. Sem.	Oct	physics601: Advanced Laboratory Course		Theoretical Physics (physics606 or - if done previously - 1 module out of physics751, physics754, physics755, physics760, physics7501)	Specialization (at least 24 cp out of physics61a, -61b, -61c and/or physics62a, -62b, -62c)	Elective Advanced Lectures (at least 18 cp out of physics70a, -70b, -70c, -70d)	Seminar (1 seminar out of physics65a, -65b, -65c)		4 cp	
	Nov									
	Dec									
	Jan									
	Feb									
2. Sem.	Mar	7 cp								
	Apr									
	May									
	June									
	July									
	Aug									
	Sep									
		Research Phase								
3. Sem.	Oct	physics910: Scientific Exploration of the Master thesis topic				physics920: Methods and Project Planning				15 cp
	Nov									
	Dec									
	Jan									
	Feb									
4. Sem.	Mar	physics930: Master Thesis								30 cp
	Apr									
	May									
	June									
	July									
	Aug									
	Sep									

Overview Master in Astrophysics

Master of Astrophysics									
Rheinische Friedrich-Wilhelms-Universität Bonn									
(valid from WS 2014/2015)									
		Course Phase							
		Compulsory						Elective	
1. Sem.	Oct		astro608: Theoretical Astrophysics	7 cp	astro810/811: Stars and Stellar Evolution	6 cp	astro810/812: Cosmology	6 cp	Elective Advanced Lectures (at least 18 cp out of astro84 and astro85)
	Nov								
	Dec								
	Jan								
	Feb								
	Mar	physics601: Advanced Laboratory Course	7 cp						
Apr									
May									
June									
July									
2. Sem.	Aug		astro830: Seminar	4 cp	astro820/821: Astrophysics of Galaxies	6 cp	astro820/822: Physics of the Interstellar Medium	6 cp	18 cp
	Sep								
		Research Phase							
3. Sem.	Oct	astro940: Scientific Exploration of the Master thesis topic			15 cp	astro950: Methods and Project Planning			
	Nov								
	Dec								
	Jan								
	Feb								
	Mar								
4. Sem.	Apr	astro960: Master Thesis							
	May								
	June								
	July								
	Aug								
	Sep								

Master in Physics (Course Phase)

- Two (obligatory) Base Modules :
 - Laboratory Course (600) (7CP)
 - Theoretical Physics (605) (7 CP)
 - * either: Advanced Quantum Theory (606) or (if already successfully completed) one out of:
 - * Advanced Quantum Field Theory (7501), Group Theory (751), General Relativity and Cosmology (754), Quantum Field Theory (755), Computational Physics (760)

- 4 Specialisation Modules out of three areas ($\Sigma \geq 24$ CP) (WS) :

Particle Physics	Cond. Matter / Photonics	Theoretical Physics
Particle Physics (611)	Condensed Matter Physics (613)	Particle Physics (615)
Accelerator Physics (612)	Advanced Atomic, Molecular and Optical Physics (620)	Hadron Physics (616)
Particle Detectors (618)	Quantum Optics (631)	Condensed Matter Physics (617)
		[Advanced Quantum Field Theory (7501)]

- Elective courses from the 700-Catalogue ($\Sigma \geq 18$ CP)
(submodules $\subset$ MSc Physics 700 $\equiv$ submodules $\subset$ MSc Astrophysics 800)
- Seminar (4 CP) : physics652,-653,-654,-655,-656,-658; astro 830

Advanced Laboratory Course (physics600/601): see:

<https://www.praktika.physik.uni-bonn.de/module/physics601>

- Either Winter term or Summer term;
- Information (date of preparatory meeting and subscription deadline) will be given during the lecture period of the winter term.
Contact: p601@physik.uni-bonn.de

- Every Module is finished by an examination and assigned credit points (CP) according to ECTS (European Credit Transfer and Accumulation System) (1 credit point $\approx$ 30 hours work load). MSc 120 CP. Final mark = mean mark weighted with CP.
- Application for MSc Examination (once) in the first semester ($\rightarrow$ “basis”; please be patient and check your entries regularly!) see also: <http://bamawww.physik.uni-bonn.de>. Also here note the “CORONA-peculiarities”!
- Registration for each Module examination (written, oral or report) via “basis”, within 8 weeks from the beginning of the semester (Deadline: typically (but not always!) 15.01.2022). Withdrawal until one day before the examination.
- As a rule there are two opportunities pro semester to take the exam. The second opportunity can be used to improve your marks. (Please register 1 week before 2. exam!) Not passing both these exams is considered to be one failure.
- Failing thrice for an examination leads to exmatriculation.

Two opportunities for examinations

- There is no third individual examination allowed for whatever reason;
- [06.08.2013]:
The examination board does not allow any exceptional individual arrangement for the examination in order to warrant an equal treatment of all examinees.

Examinations II: Registration via basis

- Without registration no participation on examinations.
- Students are responsible for proper registration.
- basis offers controlling:
 - After successful registration you automatically receive a confirmation by email. (Please file as evidence).
 - **Actively** check your registration under “Info über angemeldete Prüfungen” – if successful it should be listed here.
 - An error message is issued upon registration: Then immediately contact the examination office per email (pa@physik.uni-bonn.de or haubrich@iap.uni-bonn.de). For tracing the exact phrasing of the error message is helpful (alternatively make a *screenshot* and attach this to your email).
- Please do not wait until the last day of the registration period. Dates for registration and withdrawal are not universal for all modules! Regularly check the link “Terminübersicht in Tabellenform” on <http://bamaww.physik.uni-bonn.de/>
- Note the special dates (e.g. 30.10.2021) for registration of the Seminar!

Examinations III

- There is no automatic registration for an examination after a failure. Failures can be compensated by successful completion of an examination within the **same** module (The courses within the Modules physics61x, 62x, 63x or physics7xy are considered to be equivalent in this sense).
- The courses listed in the Appendix 2 of the MSc PO constitute the formal basis for all examinations.
- For courses see:
[http://www.physik-astro.uni-bonn.de: "Teaching":](http://www.physik-astro.uni-bonn.de: \)
- Exceptional registration deadlines:
 - Lab.Courses, see: <http://www.praktika.physik.uni-bonn.de>
 - Seminars, see: <http://bamawww.physik.uni-bonn.de>,
"Terminübersicht in Tabellenform".

- (1) Before starting the modules “Scientific Exploration of the Master Thesis Topic” and “Methods and Project Planning” the theme agreed upon with the thesis supervisor has to be approved by the examination board (see the application form). After approval the 3 modules including the beginning and end date will be registered in “basis” by the examination office. The 3 modules “Scientific Exploration of the Master Thesis Topic”, “Methods and Project Planning” and “Master Thesis” - including the oral presentation - have to be accomplished without interruption within a period of 12 months, of which 6 months correspond to the module “Master Thesis”; according to “§17, Abs. 6” of the “Prüfungsordnung”, the chair of the examination board can allow for a prolongation up to 6 weeks in case of a justified application.

Master Thesis: regulation (2)

The prerequisites to start the modules “Scientific Exploration of the Master Thesis Topic” and “Methods and Project Planning” are:

- (2) Successful completion of the “course phase” (60 credit points).
- (3) Although scheduled for the 3rd and 4th semester, you can also do your research phase (Master thesis) in e.g. the 4th and 5th semester.
- (4) For regulations, forms etc., see:

<http://www.physik-astro.uni-bonn.de/studies-de/mitteilungen-des-pruefungsamtes>

or

<http://bamawww.physik.uni-bonn.de>
“Master courses Physics and Astrophysics”

- All modules in (astro)physics should be registered via “basis”!
- No acknowledgement of such modules on the basis of written certifications (“Leistungsnachweise”); Exception: Examinations taken at Cologne University.
- **Please take care to register examinations appropriately: e.g. no “Elective Advanced Course” as “Additional Voluntary Course” etc.**
Specialization Course ↔ Elective Advanced Course ↔ Additional Voluntary Course
- In case of exceptional modules to be acknowledged as “Elective” or as “Specialisation”:
Contact me, prior to registration!

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