



# Welcome Talk

Studying physics/astrophysics in Bonn

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Have you heard about the  
“Fachschaft”?

*by the way, if I haven't said,  
I'm Henry :D*

# Student council - The *Fachschaft*

## What we are...

- a group of students
  - everything between first-years and PhD-students
- involved in many of the intricate bits of the bureaucracy
  - part of department councils, meetings and decisions
- organizers of many events
  - this welcome week
  - community events like parties, barbecues and social networking activities
- help in nearly all things regarding physics or the studies here in Bonn
- not paid (sadly), we do it because we like it



# The Room where it happens



- HISKP room 0.027: The Fachschaftsraum
- has all the necessary goods
  - throughout the semester regular opening hours where help is (should be) available
  - a printer (called Marvin)
  - a coffee maker (and also tea)
  - small amount of workspace
  - PCs to interact with Marvin (he has issues)
  - maybe even something else to drink ;)

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# Welcome Week

step by step

# What is time?



**exams:**

18:00 means **18:00**


18 s.t. means **18:00**

**lectures:**

18 c.t. means **18:15**

**appointments:**

18 Uhr means **18:15**



**Today,**  
02.10.2023

**10 c.t. - 12:00**  
HISKP  
Lecturehall  
NOW

**Welcome talk**

**12 c.t. - 14:00**  
Mensa Campo


**Lunch break**

**14 s.t. - 16:00**  
HISKP  
Foyer

**Campus tour**

**18 s.t. - open End**  
HISKP  
Seminar room 1

**Board game evening**



**Tuesday,**  
03.10.2023

**DAY OFF**  
BUT...

**“Meet Your Fachschaftler”  
(with barbecue)**


**14:00 - open end**  
Behind the HISKP





**Wednesday,**  
04.10.2023

- Train to Cologne (from the HISKP or on your own)
- Talk about “Physics in Germany” and some history
- Labtours (Biophysics, Solid state physics & molecular physics labs)
- relaxing evening activity



**Thursday,**  
05.10.2023

**10 c.t. - 12:00**  
HISKP  
Seminar room 2

**Q&A with us**

**12 c.t. - 14:00**  
Mensa CAMPO

**Lunch break**

**14 s.t. - 16:00**  
HISKP  
Foyer

**Laboratory tours**



**Friday,**  
06.10.2023

**09 c.t. - 10:00**

IAP

Lecturehall

**BCGS info talk**

**10 c.t. - 12:00**

HISKP

Seminar room 1

**“Theoretical  
breakfast”**

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Bonn-Cologne Graduate School

# What is the BCGS?



- joined program of graduate studies between Bonn and Cologne
- it provides mentoring as well as social and scientific connections
- connects the phases of MSc and PhD to form one coherent concept



**BCGS Info Talk:  
Friday - 06. Oktober  
09:15 - 10:00  
Lecturehall IAP**

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# Bureaucracy

*from once in a lifetime to daily activity*

# From *once in a lifetime...*

**What do I need to know about my degree program?**

You can find information for first-semester students as well as study and examination regulations in the relevant degree program.

**Bachelor of Science**

The BSc degree program teaches the basics of experimental and theoretical physics. Most students go on to complete a master's degree program.

[Overview - in German](#)

**Master of Science**

On the master's degree program, you will learn how to approach complex physical problems and solve them using scientific methods.

[To the overview](#)

how-examinations-are-organized physics bonn

Videos Bilder News Bücher Maps Flüge Finanzen

Ungefähr 6.780.000 Ergebnisse (0,40 Sekunden)

Tipp: Suche auf Ergebnisse auf **Englisch** beschränken. Weitere Informationen zum Filtern nach Sprache

Universität Bonn  
https://www.physik-astro.uni-bonn.de > ...

start examinations — English - Fachgruppe Physik/Astronomie

Uni **Bonn** Zentralinstanz Review. You are here: **Physics/Astronomy** · Studying; **How examinations** are **organized**. Absence note (if applicable). **How examinations** are ...

[More information](#)

## Information and Rules for First-Year Students

Application form for admission to the examinations in Master of Physics —

[Download application form](#)

Application form for admission to the examinations in Master of Astrophysics —

[Download application form](#)

# Exam dates

Wintersemester 2023/2024, 1. Termin						
31.08.2023	physik561/physik412: Praktikum Atome, Moleküle, Kondensierte Materie		19.06.2023	31.08.2023	20.10.2023	1
31.08.2023	physik661/physik512: Praktikum Kern- und Teilchenphysik		19.06.2023	31.08.2023	20.10.2023	1
22.10.2023	astro830: Seminar on Modern Topics in Astrophysics		13.09.2023	22.10.2023	25.10.2023	1
22.10.2023	physics650: Seminar		13.09.2023	22.10.2023	25.10.2023	1
22.10.2023	physik541: Proseminar Präsentationstechnik		04.09.2023	22.10.2023	25.10.2023	1
15.01.2024	LABphysik515: Fachdidaktische Übungen V		01.10.2023	15.01.2024	31.01.2024	1
29.01.2024	astro8531: The Physics of Dense Stellar Systems	Klausurtermin: 29.01.2024, 15-18 uhr	01.10.2023	15.01.2024	28.01.2024	1
31.01.2024	astro121: Einführung in die Astronomie	Klausurtermin: 31.01.2024, 12-14 Uhr	01.10.2023	15.01.2024	30.01.2024	1
31.01.2024	physics740: Hands-on Seminar: Experimental Optics and Atomic Physics		01.10.2023	31.01.2024	31.01.2024	1
01.02.2024	physics613: Condensed Matter Physics	Klausurtermin: 01.02.2024, 14-16 Uhr, HS, IAP	01.10.2023	15.01.2024	31.01.2024	1
01.02.2024	physik011: Physik für Naturwissenschaftler I	Klausurtermin: 01.02.2024	01.10.2023	15.01.2024	31.01.2024	1
02.02.2024	physics742: Ultracold Gases: Experiment and Theory	Klausurtermin: 02.02.2024, 10-12 Uhr, HS, IAP	01.10.2023	15.01.2024	01.02.2024	1
02.02.2024	physik311: Physik III	Klausurtermin: 02.02.2024, 10-12 Uhr, WP-HS	01.10.2023	15.01.2024	01.02.2024	1
03.02.2024	physik021/041 für Mediziner, Pharmazeuten, Geodäten, Geowissenschaftler ...	Klausurtermin: 03.02.2024				1
06.02.2024	physik111: Physik I	Klausurtermin: 06.02.2024, 10-12 Uhr				1
06.02.2024	physik511: Physik V	Klausurtermin: 06.02.2024, 13-15 Uhr				1
07.02.2024	physik321: Theorie II	Klausurtermin: 07.02.2024, 9-12 Uhr				1
07.02.2024	physics7501: Advanced Quantum Field Theory / physics607: Advanced Theoretical Physics	Klausurtermin: 07.02.2024, 10-13 Uhr, HS I, PI	01.10.2023	15.01.2024	06.02.2024	1
14.02.2024	physics606: Advanced Quantum Theory	Klausurtermin: 14.02.2024, 9-12 Uhr, WP-HS	01.10.2023	15.01.2024	13.02.2024	1
15.02.2024	math341: Mathematik III für Physiker	Klausurtermin: 15.02.2024, 9-12 Uhr, WP-HS	01.10.2023	15.01.2024	14.02.2024	1
16.02.2024	physik521: Theorie IV	Klausurtermin: 16.02.2024, 9-12 Uhr, WP-HS	01.10.2023	15.01.2024	15.02.2024	1
19.02.2024	math141: Mathematik I für Physiker	Klausurtermin: 19.02.2024, 9-12 Uhr, WP-HS, HS I, PI				1
31.03.2024	astro831: Research Project	Wintersemester 2023/2024				1
31.03.2024	physics732: Optics Lab		01.10.2023	31.03.2024	31.03.2024	1

registration available from

de-registration until

registration available until





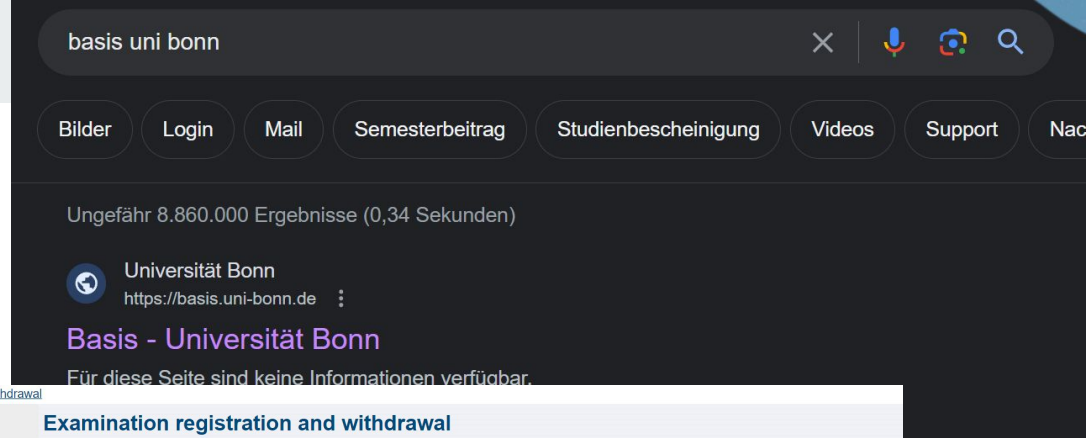
# Exam registration



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## Examination registration and withdrawal

Please use the overview below to select the examination you want to register for or withdraw from. To do so, click on the title.

- Master of Science Physik 2014**
  - k** 1100 Pflichtmodule PO 2014
    - m** 621116000 Base Module: Laboratory Course
    - m** 621116090 Elective Courses Theoretical Physics
      - m** 621116052 Alternative Prüfungen in physics605a
      - 621216060 physics606: Advanced Quantum Theory
        - Examiner: Hanhart/Kubis, , 2. Examiner: , Date: 01, Room: , Start: , Note: [registration of exam](#)
    - m** 621116200 Specialization Module
    - m** 621116500 Seminar
    - m** 621117000 Elective Advanced Lectures
    - m** 621119100 Scientific Exploration
    - m** 621119200 Methods and Project Planning
  - k** 3000 Additional Voluntary Courses (not counting for the exam) according to § 25 Prüfungsordnung
  - k** 4000 Additional Voluntary Courses (not counting for the exam, records only kept in basis)
  - 8000 Master Thesis
  - 9000 Masterabschluss

## Kategorien

 Haupt- und Graduiertenseminare


 Kolloquien


 Masterarbeitspraktika

 Weitere Lehrveranstaltungen

## Kurse

 | 2023 WiSe | physics601: Advanced Laboratory Course  
Anmeldung: Keine Anmeldung möglich

 | 2023/24 WiSe | physics612: Accelerator Physics  
Anmeldungsende: 31. Okt 2023, 23:55

 Einführung in die theoretischen Neurowissenschaften  
Anmeldung: Keine Anmeldung möglich

 physics606: Advanced Quantum Theory


# E-Mail & eCampus



 eCampus |  Dashboard

**HINWEIS FÜR LEHREN**  
erfordert jedoch einen

Repository 

 Repository  Arbeitsraum

 Website **Welcom**

 Support eCampus repository  Kommunikation

 Dashboard


### Favoriten


#### Kurse

 FS Physik/Astronomie


 physics716: Statistical Methods of Data  
Anmeldungsende: 29. Okt 2023, 23:00

 physics613: Condensed Matter Physics  
Verfügbarkeit: 29. Aug 2023, 00:00 - 28. Mär

 physics615: Theoretical Particle Physics  
Introduction into the Standard Model of Par  
Anmeldungsende: 30. Nov 2023, 17:50  
Verfügbarkeit: 20. Sep 2023, 17:45 - 31. Mär

 | 2023 SoSe | physics632: Physics of He

 | 2023 SoSe | physics633: High Energy  
Anmeldungszeitraum: Keine Anmeldung mö

 | 2023 SoSe | physics653: Seminar on f

 Website

 Support

**Kennwort**

**Meine Einst**



# Services

# Services you might need



Prof. Dr. Manuel Drees

Fachstudienberater - Master Physik (M.Sc.)

Student advisor

+49 228 732224

[drees@th.physik.uni-bonn.de](mailto:drees@th.physik.uni-bonn.de)



## Info-Talk:

11. October

10:00 - 12:00

Lecturehall XVI - Geodesy

(across the street from HISKP)

## “Trust-lecturers”

Prof. Annika Thiel

[thiel@hiskp.uni-bonn.de](mailto:thiel@hiskp.uni-bonn.de)

Prof. Florian Bernlochner

[florian.bernlochner@uni-bonn.de](mailto:florian.bernlochner@uni-bonn.de)

they help with sensitive matters

## “Mensa-Card”

- No cash in the cafeteria!
- Bank card only with student-ID
- loading up with >10€ grants 3% bonus
- available in the café

# Help for foreign students

## Division 6 – International Office

The International Office coordinates the international activities of the University of Bonn, and acts as the central point of contact for international students and researchers – before, during and after their time at the University. It also provides support to students and researchers of the University of Bonn in all issues relating to international mobility and cooperation.



### Prospective students

The [Student Registry](#) is the first point of contact for all international students regarding all interdisciplinary administrative questions about studying at the University of Bonn.

#### Contact

+49 228 73-4464  
+49 228 73-4491

intstud@verwaltung.uni-bonn.de

#### Address

Poppelsdorfer Allee 49  
53115 Bonn (Germany)



### Students

The International Office provides counseling and support for international (doctoral) students for any organizational questions they face related to their studies and stay in Bonn.

#### Contact

Contact persons  
+49 228 73-5544  
students@uni-bonn.de

#### Address

Poppelsdorfer Allee 53  
53115 Bonn (Germany)

#### International Service Point

Opening hours: Monday to Thursday, 08:00 am - 04:00 pm \\  
Friday 08:00 am - 02:00 pm



Ort Room 12 (Container)  
Tel. (currently unavailable)  
E-Mail [international @ asta.uni-bonn.de](mailto:international@asta.uni-bonn.de)  
Instagram [@bonninternationalstudents](https://www.instagram.com/bonninternationalstudents)  
Facebook [bonninternationalstudents](https://www.facebook.com/bonninternationalstudents)  
Skype [@Internationales Referat AStA Uni Bonn](https://www.skype.com/InternationalesReferatAStAUniBonn)

#### Anwesenheitszeiten

Montag	14:00 - 16:00 online
Dienstag	-
Mittwoch	-
Donnerstag	15:00 - 17:00
Freitag	-

Schedule on a calendar:

<https://tinyurl.com/astaintcalendar>

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# Physics-Masters in Bonn

an introduction

# Modules

		Master Rheinische Friedrich (valid from							
		Compulsory							
1. Sem.	Oct			Theoretical Physics (physics606 or - if done previously - 1 module out of physics751, physics754, physics755, physics760, physics7501)	7 cp				
	Nov								
	Dec								
	Jan								
	Feb								
2. Sem.	Mar	physics601: Advanced Laboratory Course	7 cp						
	Apr								
	May								
	June								
	July				7 cp				
3. Sem.	Aug	physics910: Scientific Exploration of the Master thesis topic							
	Sep								
	Oct								
	Nov								
	Dec								
4. Sem.	Jan								
	Feb								
	Mar								
	Apr								
	May								
4. Sem.	June								
	July								
	Aug								
	Sep								

Degree:

M.Sc. in Physics (PO von 2014)

**Module:** Specialization: Theoretical  
Physics

Module No.: physics61c

**Course:** universität**bonn** Theoretical Particle Physics

Course No.: physics615

Category	Type	Language	Teaching hours	CP	Semester
Elective	Lecture with exercises	English	3+2	7	WT

#### Requirements for Participation:

##### Preparation:

Advanced quantum theory (physics606)  
Quantum field theory (physics755)  
Group theory (physics751)

##### Form of Testing and Examination:

Requirements for the examination (written): successful work with the exercises

##### Length of Course:

1 semester

##### Aims of the Course:

Introduction to the standard model of elementary particle physics and its extensions (unified theories)

##### Contents of the Course:

Classical field theory, gauge theories, Higgs mechanism;  
Standard model of strong and electroweak interactions;  
Supersymmetry and the supersymmetric extension of the standard model;  
Grand unified theories (GUTs);  
Neutrino physics;  
Cosmological aspects of particle physics (dark matter, inflation)

##### Recommended Literature:

T. P. Cheng, L.F. Li: Gauge theories of elementary particle physics (Clarendon Press, Oxford 1984)  
M. E. Peskin, D.V. Schroeder; An introduction to quantum field theory (Addison Wesley, 1995)  
J. Wess; J. Bagger; Supersymmetry and supergravity (Princeton University Press 1992)

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# ASTROphysics-Masters in Bonn

another introduction



# Astrophysics



Prof. Dr. Peter Schneider

Subject-specific study advisor for  
astronomy

[peter@astro.uni-bonn.de](mailto:peter@astro.uni-bonn.de)

[Website](#)

+49 228 733671

**Room 3.003**  
Auf dem Hügel 71  
53121 Bonn

Argelander Institute for Astronomy

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							
2. Sem.	Apr		astro830: Seminar	4 cp	astro820/821: Astrophysics of Galaxies	6 cp	astro820/822: Physics of the Interstellar Medium	6 cp	18 cp
	May								
	June								
	July								
	Aug								
Sep									
		Research Phase							
3. Sem.	Oct		astro940: Scientific Exploration of the Master thesis topic	15 cp			astro950: Methods and Project Planning		15 cp
	Nov								
	Dec								
	Jan								
	Feb								
Mar									
4. Sem.	Apr		astro960: Master Thesis						30 cp
	May								
	June								
	July								
	Aug								
Sep									



# Conclusion

# Upcoming events:

**Info-Talk (Prof. Drees):**

11. October

10:00 - 12:00

Lecturehall XVI - Geodesy

(across the street from HISKP)

## Poster session

by our research groups  
for interested students  
(Bachelor and Masters)

**When?**

**13/10 from 2 to 4 p.m.**

**Where?**

**Foyer WPH**

...and there will be pizza,  
so come around!

## COCKTAILABEND!

Getränke:

preiswert

Gute Laune und Musik:

kostenlos

~

**Freitag der 13.(10.)**

**ab 18 Uhr im HISKP**

# Upcoming events:

← von Helmholtz Institute for Radiation and Nuclear ...  
nach Zülpicher Str. 77, 50937 Köln

- 09:50 **Helmholtz Institute for Radiation and Nuclear Physics**  
Nußallee 14-16, 53115 Bonn
- Zu Fuß  
▼ ca. 3 min, 180 m
- 09:53 **Bonn Kaufmannstr.**  
**604** Hersel  
▼ 3 min (2 Zwischenstopps)
- 09:56 **Colmantstr./Hbf**  
 Zu Fuß  
▼ ca. 1 min
- 10:04 **Bonn Hbf**  
**RES** 28512 Wesel Bahnhof  
▼ 17 min (2 Zwischenstopps)  
▲ **Geänderter Fahrplan**
- 10:21 **Köln Süd**  
 Zu Fuß  
▼ ca. 7 min, 550 m
- 10:28 **Zülpicher Str. 77**  
50937 Köln

Wednesday

Google

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FS-PHYSIK PRÄSENTIERT

# Affenfelsen

# FESTIVAL

**MIT WEM**

Quattro Suzies | Max Goedecke | Cattleya |  
Oskar Dunkelblau | Dubai Holiday | Lucito | Y Mellon

**WANN**

SA 07. OKTOBER 2023 | 14:00 Uhr

**WO**

AFFENFELSEN DER PHYSIK  
Enrique-Schmidt-Cuadra-  
Weg

Es wird Essen und Getränke geben

**NOCH EINMAL PARTY VOR BEGINN DES SEMESTERS!**

fs-physik.uni-koeln.de [https://www.instagram.com/fs\\_physik\\_ukz/](https://www.instagram.com/fs_physik_ukz/)