

Welcome Master Students

Information for new Master students
enrolled in the study programs
Master Physics, Master Computational Science &
Master Physics Teacher Training

Welcome!

- **Welcome**
- **Introduction to the Faculty of Physics**
 - Research areas at the Faculty
 - Dean's office and Directorate of Studies
 - StudyServiceCenter (SSC) Physics
 - Diversity coordinator and Student representative
 - Students Representatives
- **Studying at the Faculty**
 - Study organization: u:find, guidelines for course and exam registration, etc.
 - Code of Conduct
 - Information about recognition for prior study achievements
 - Information about the master's thesis
 - Offers for academic writing
 - Specific information on the study plans

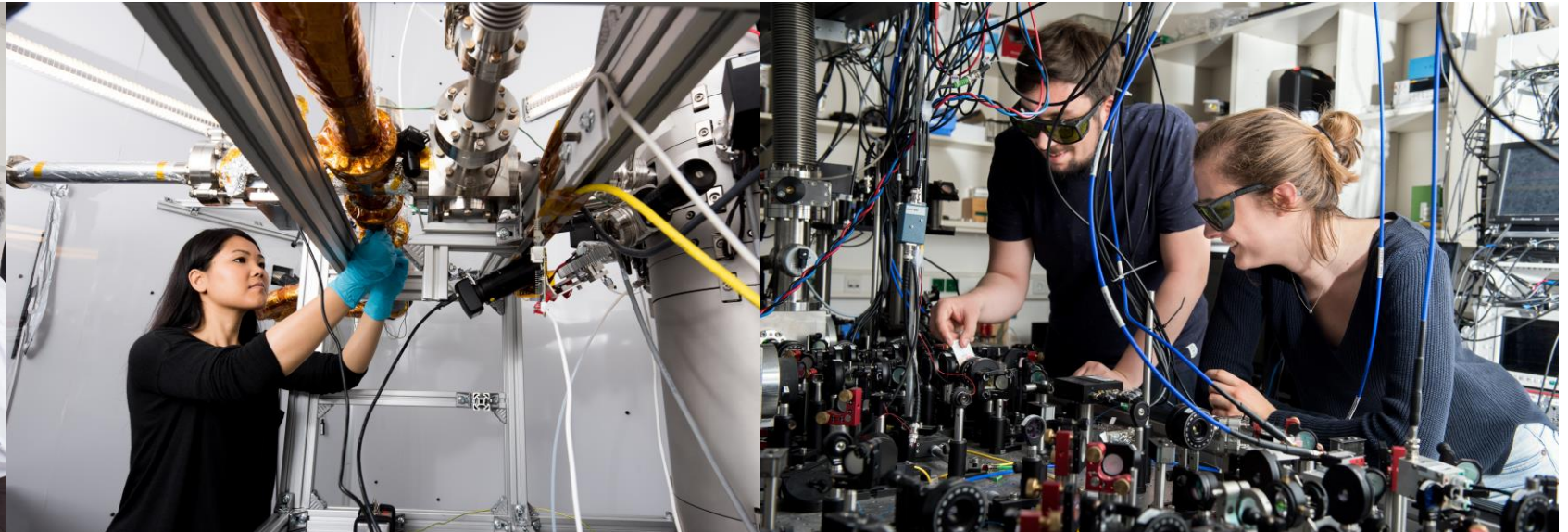
Faculty of Physics

physik.univie.ac.at/en/

400 employees (43 professors)
2.200 students (600 beginners)
80 persons in administration/management



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© Barbara Mair

© Barbara Mair

Organisational structure of the Faculty of Physics

<https://physik.univie.ac.at/en/about-us/deans-office/>

Faculty management

Dean: Univ.-Prof. Dipl.-Phys. Dr. Stefan Fredenhagen
V-Dean: Univ.-Prof. Dr. Roberto Cerbino
V-Dean: Univ.-Prof. Dr. Jani Kotakoski
Dekanatsdirektion: Gabriele Marzoner & Team
Diversity coordinator: Mag. Brigitte Bischof

Research

14 Research groups
Faculty Center for Nano Structure Research
3 Research platforms
3 Research networks
Environment and Climate Research Hub

Study & Teaching

Director of Studies Physics:
Assoz.-Prof. DI Dr.ⁱⁿ Kerstin Hummer
Physics Directorate of Doctoral Studies:
Univ.-Prof. Mag. Dr. Thomas Pichler
StudyServiceCenter Physics: Ing. Kristina Wohlmuth

Site map of the faculty

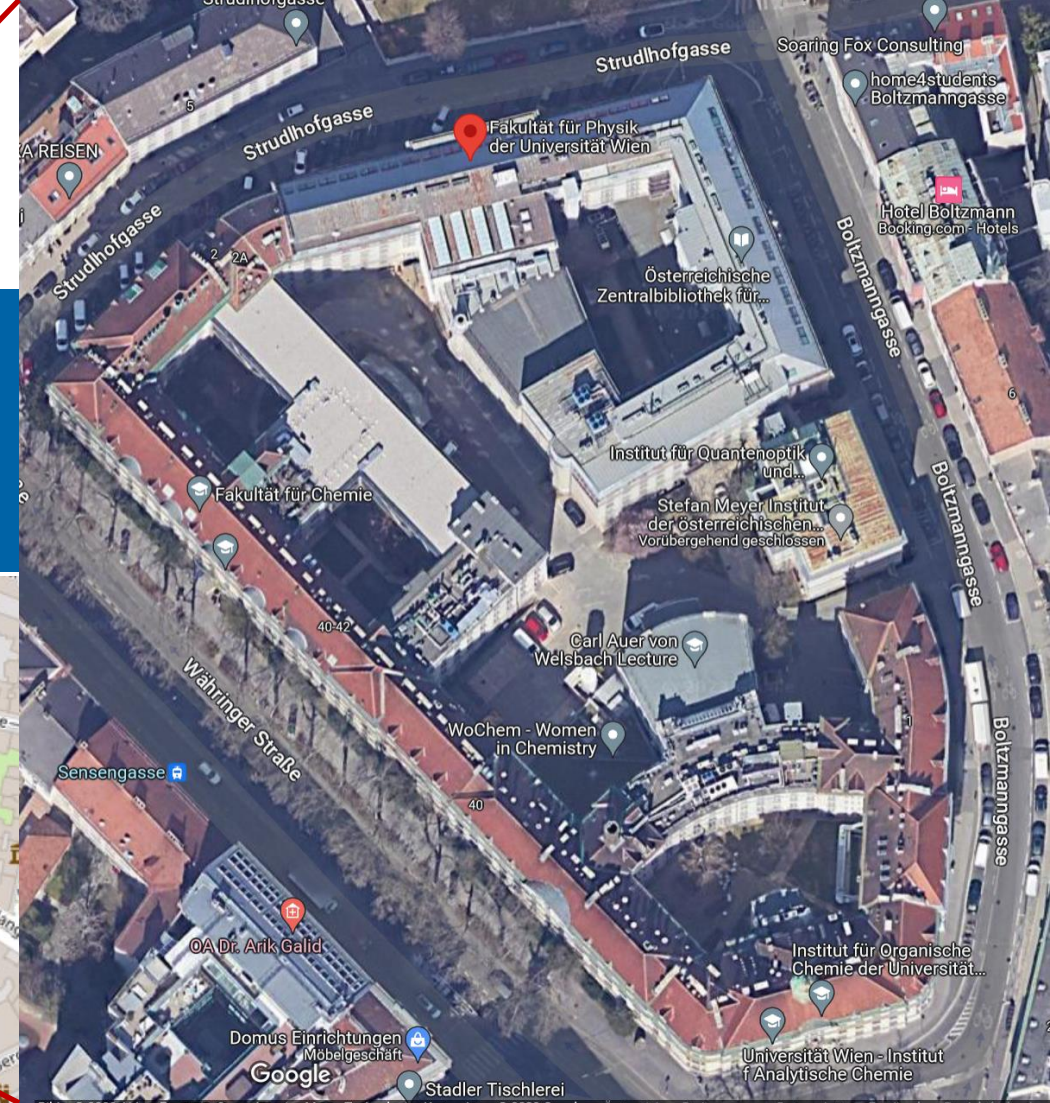
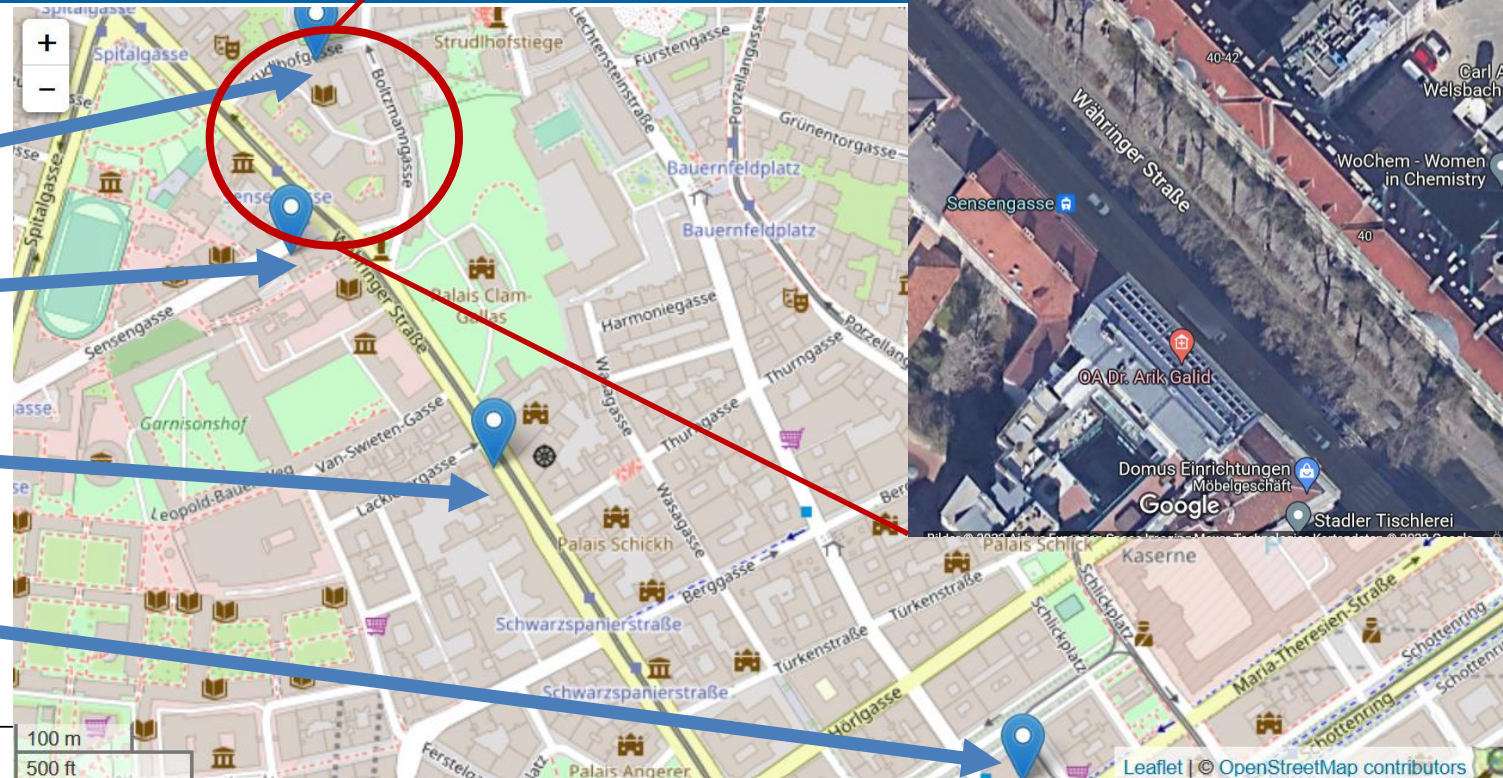
<https://physik.univie.ac.at/en/how-to-find-us/how-to-find-us/>

Strudlhofgasse 4
Boltzmannngasse 5

Sensengasse 8

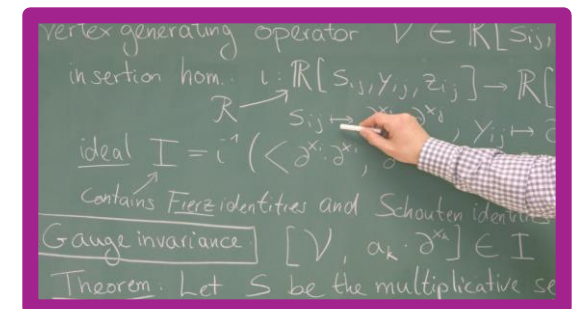
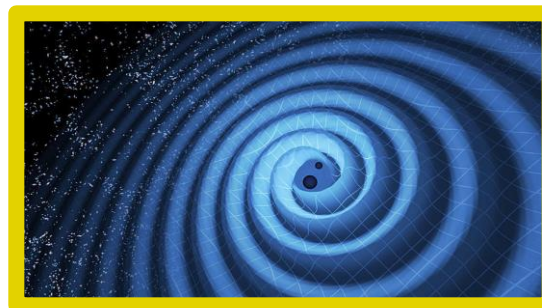
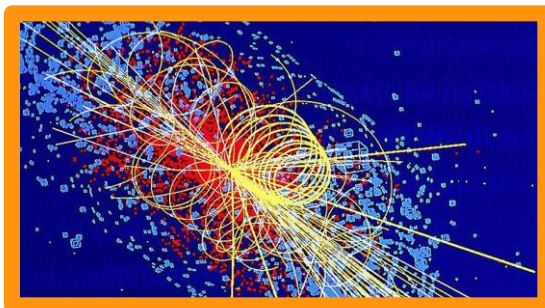
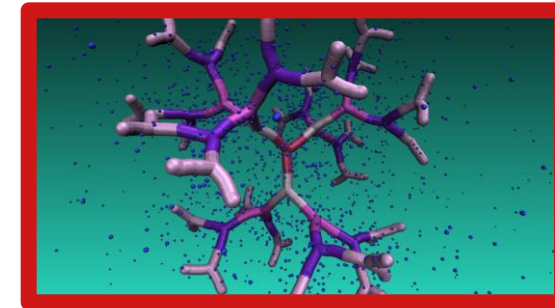
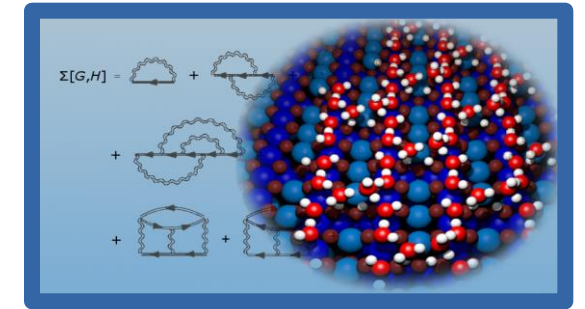
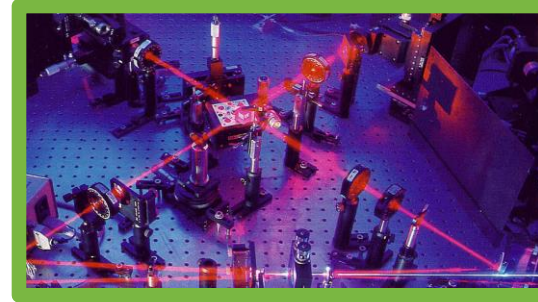
Währingerstraße 17

Kolingasse 14-16



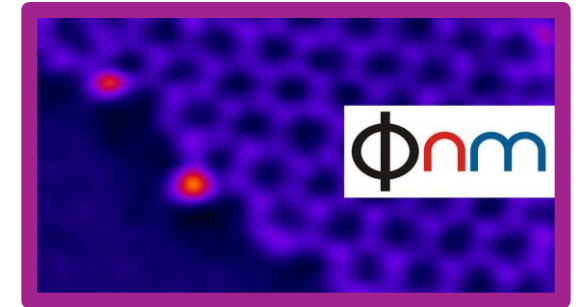
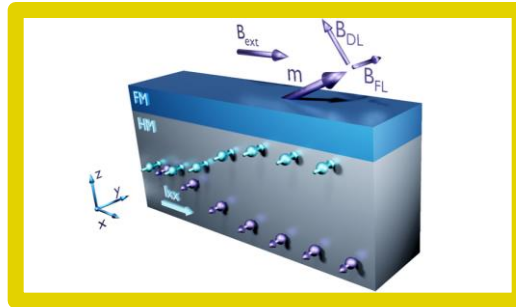
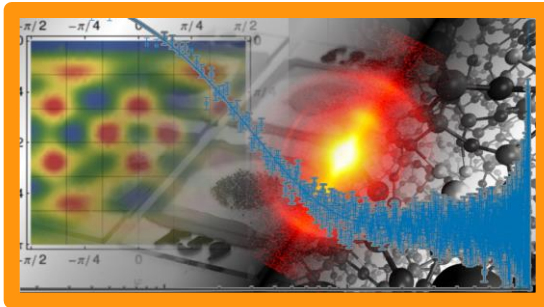
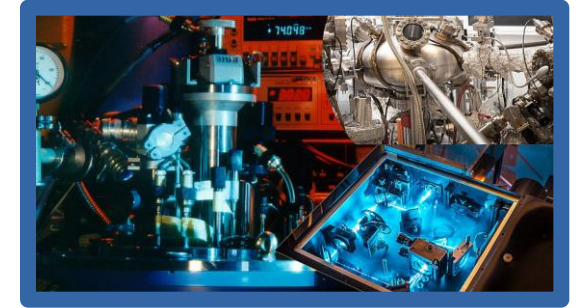
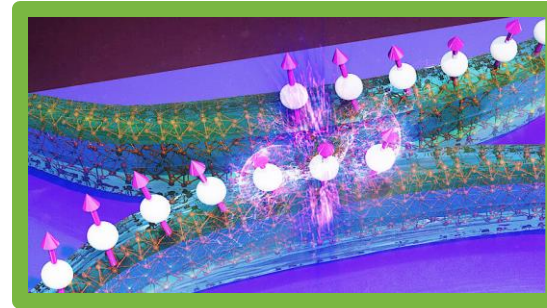
Research at the Faculty of Physics

- Quantum Optics, Q-Nanophysics, Q-Information
- Computational Materials Physics
- Computational and Soft Matter Physics
- Particle, Gravitational and Mathematical Physics



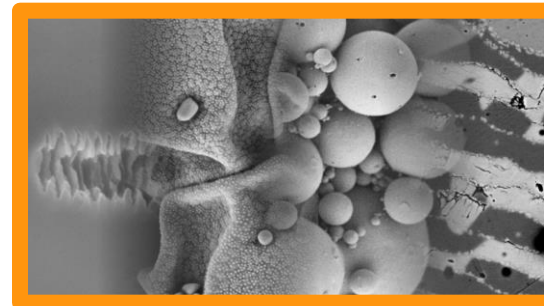
Research at the Faculty of Physics

- Nanomagnetism and Magnonics
- Electronic Properties of Materials
- Dynamics of Condensed Systems
- Physics of Functional Materials
- Physics of Nanostructured Materials



Research at the Faculty of Physics

- Aerosol Physics and Environmental Physics
- Isotope Physics
- Faculty Centre for Nanostructure Research
- Basic Experimental Physics Training and University Didactics



Directorate of study program physics (SPL)

<https://ssc-physik.univie.ac.at/ueber-uns/studienprogrammleitung/>

Directors of Studies Physics

Assoz.-Prof. DI Dr.ⁱⁿ Kerstin Hummer (MA Comp. Science)
ao Univ.-Prof. Mag. Dr. Erhard Schafler (BA Physik)
Univ.-Prof. Dr. Martin Hopf (BA & MA UF Physik)
Assoz.-Prof. Dr. Paul Winkler (MA Physics)

Consultation hours: see [SSC Physik Webseite](#)

SSC Physics

Director: Ing. Kristina Wohlmuth
Helene Knoll
Judith Suttner, BSc

Studies conference „StuKo“

Advisory board of the SPL
Members: Teachers and Students

StudyServiceCenter (SSC) Physics

<https://ssc-physik.univie.ac.at/en/>

“... responsible for teaching and study administration at the Faculty of Physics”

Colleagues from the SSC can help you in all administrative and legal concerns related to your studies, specifically:

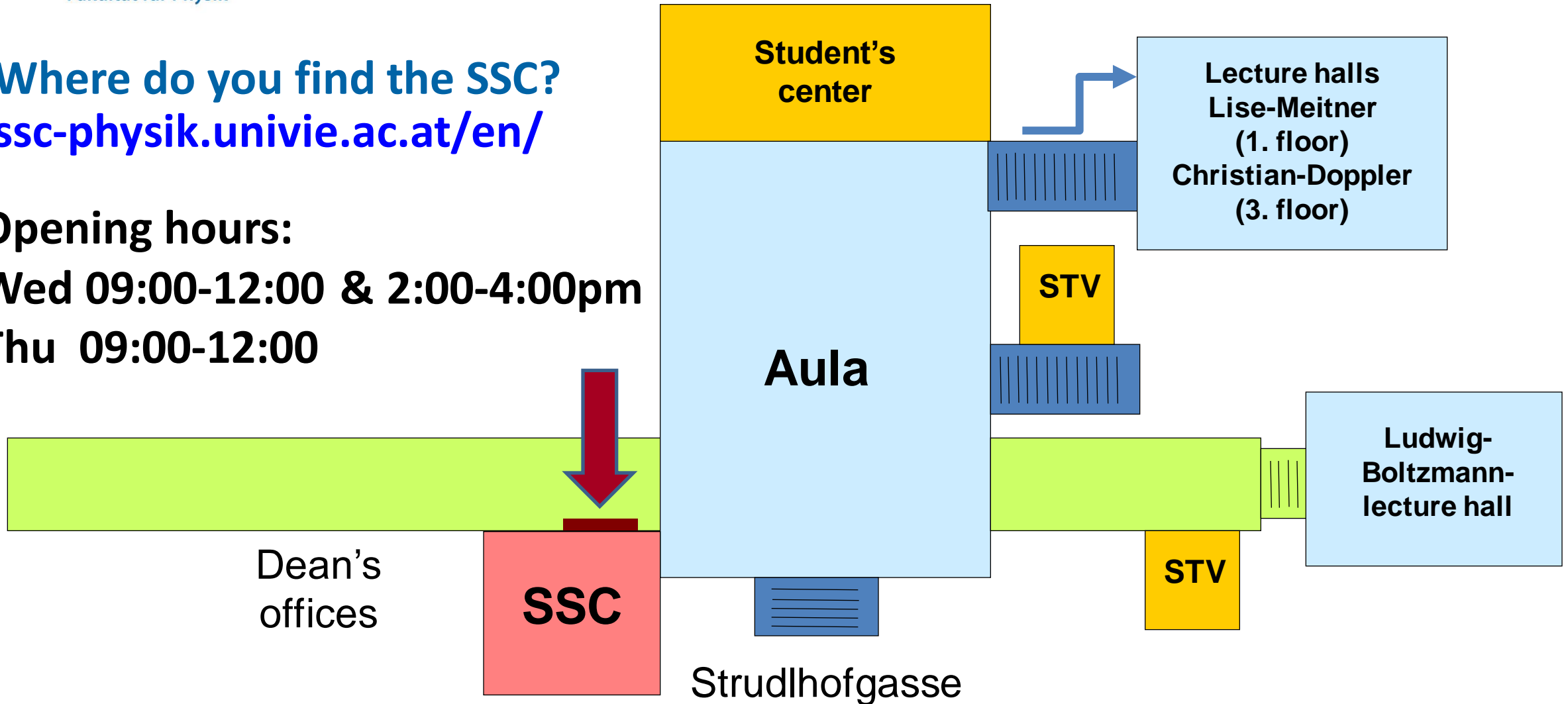
- for many questions that arise during the studies
- Information on registering and deregistering for courses and exams
- Recognition of examination results: <https://ssc-physik.univie.ac.at/studieren/anerkennungen/>
- Graduation
- and much more...

Where do you find the SSC? ssc-physik.univie.ac.at/en/

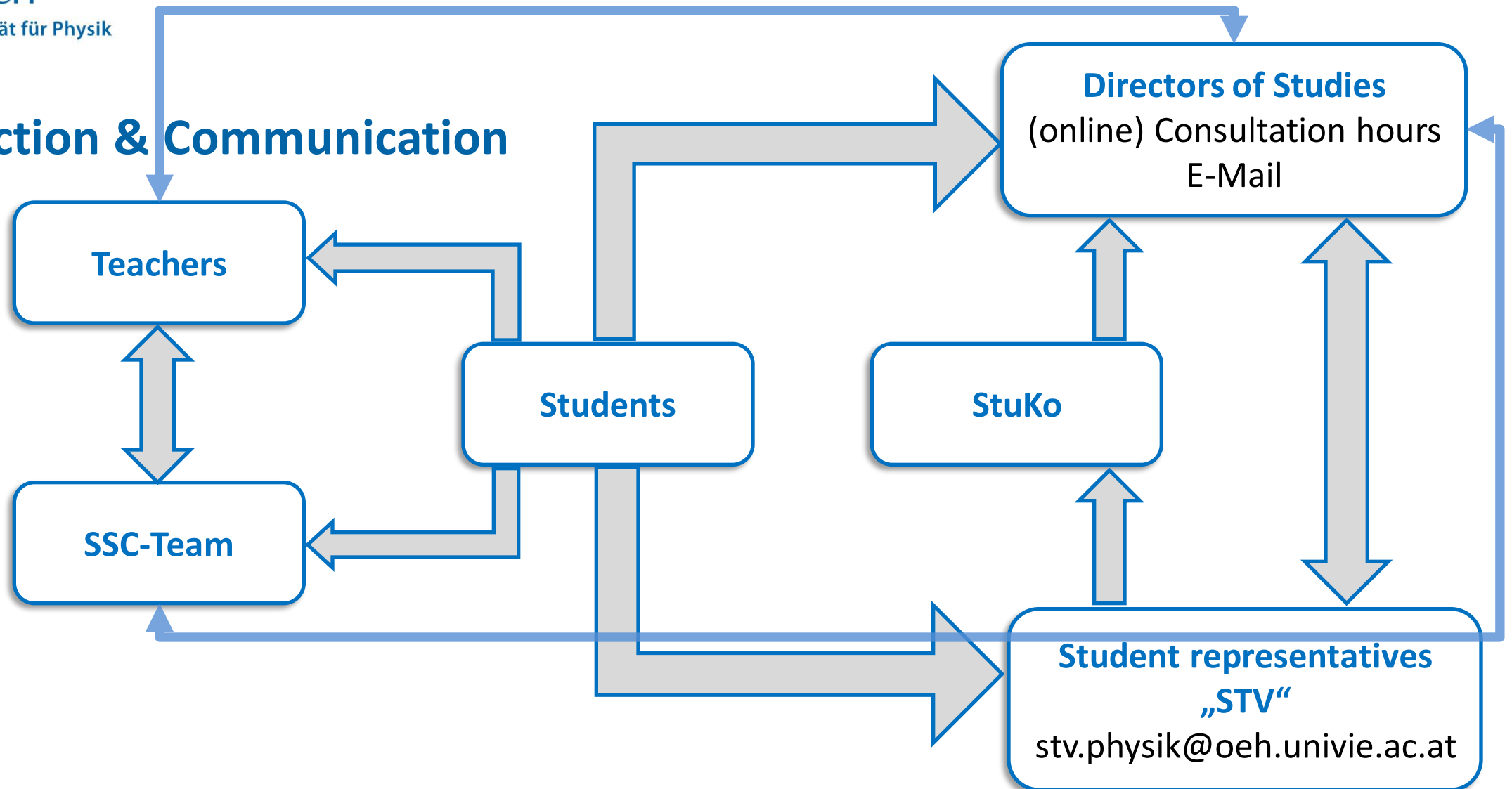
Opening hours:

Wed 09:00-12:00 & 2:00-4:00pm

Thu 09:00-12:00



Interaction & Communication



Student representatives Physics + CompSci („STV“)

<https://physik.nawi.at/>

General information

What is the Red Vector as a student organisation and what do we do?

What is the ÖH?

How can you contact us and get involved?

04 October, evening

Event to get to know people from the faculty as well as your peers and the student representatives



Student representatives Physics + CompSci („STV“)

Why would you get in touch?

- Questions/Problems with your studies
- If you want a discount on Mensa lunch
- If you want to get involved (however)
- If you want a drink

When can you get in touch?

- Office Hours (times will be published)
- Whenever you find someone around
- Anytime in the WhatsApp Community

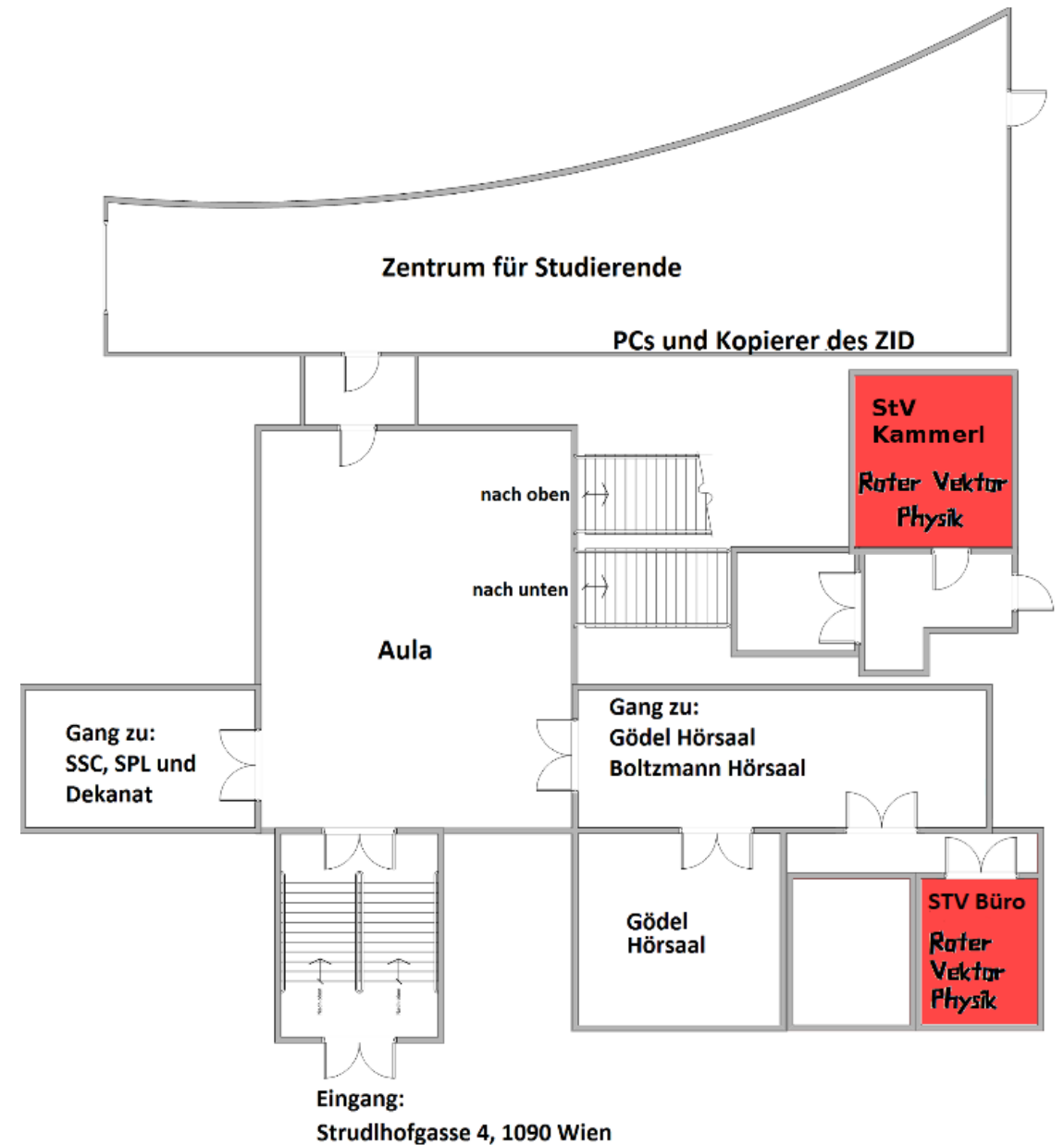
Student representatives

Email:

stv.physik@oeh.univie.ac.at

Website:

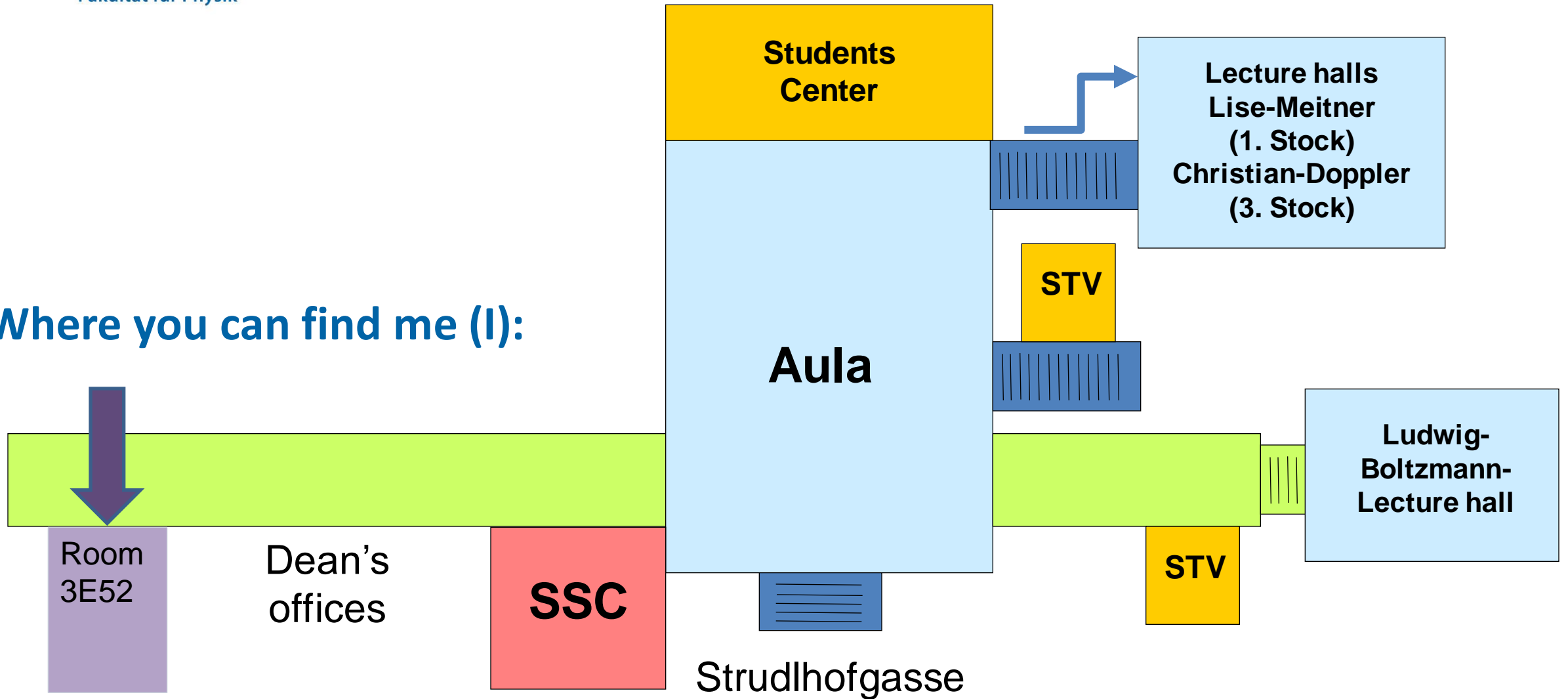
physik.nawi.at



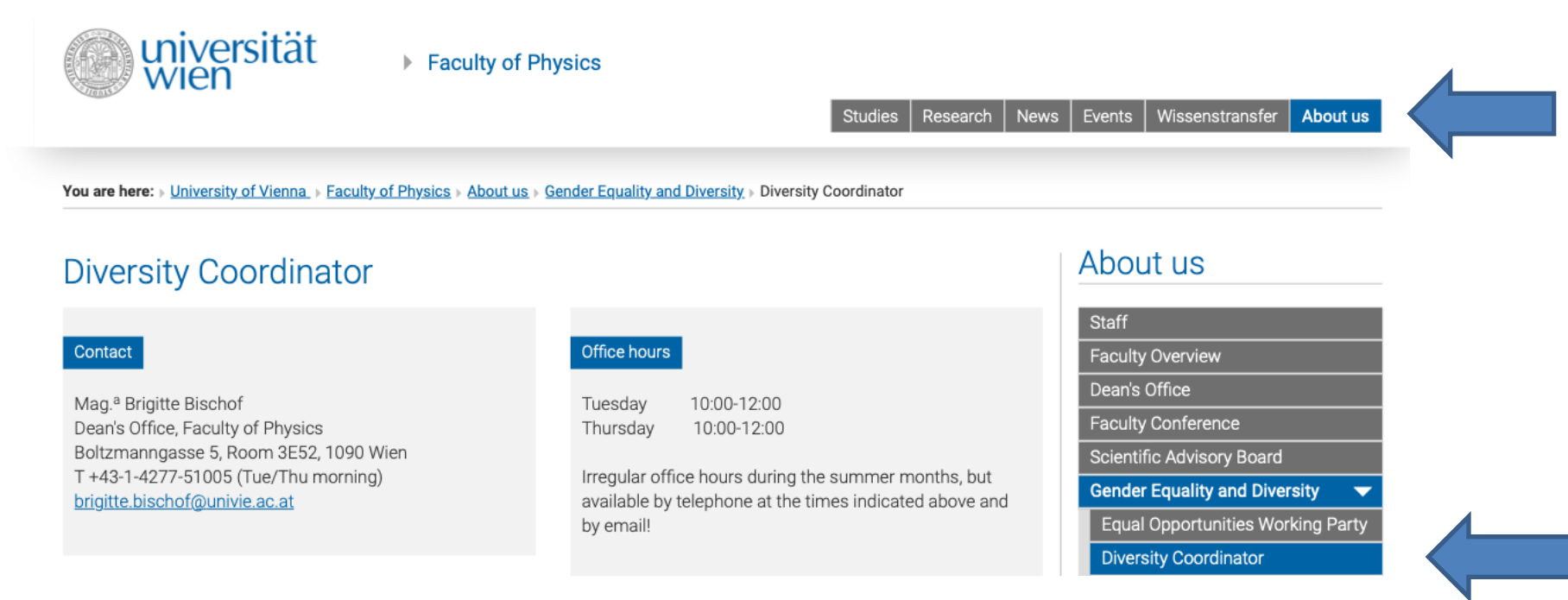
Diversity Coordinator at the Faculty of Physics

- Brigitte Bischof - on-site contact for your concerns regarding gender equality & diversity
- Contact:
 - Office hours: Tuesday/Thursday 10:00-12:00 Room 3E52
 - Telephone: +43-1-4277-51005
 - Email: brigitte.bischof@univie.ac.at

Where you can find me (I):



Where you can find me (II)



The screenshot shows the website for the Diversity Coordinator at the University of Vienna Faculty of Physics. It includes a top navigation bar with 'About us' highlighted, a breadcrumb trail, and two main content areas: 'Diversity Coordinator' with contact details and 'About us' with a dropdown menu.

Navigation Bar: Studies | Research | News | Events | Wissenstransfer | **About us**

Breadcrumb: You are here: [University of Vienna](#) > [Faculty of Physics](#) > [About us](#) > [Gender Equality and Diversity](#) > Diversity Coordinator

Diversity Coordinator

Contact

Mag.^a Brigitte Bischof
Dean's Office, Faculty of Physics
Boltzmannngasse 5, Room 3E52, 1090 Wien
T +43-1-4277-51005 (Tue/Thu morning)
brigitte.bischof@univie.ac.at

Office hours

Tuesday 10:00-12:00
Thursday 10:00-12:00

Irregular office hours during the summer months, but available by telephone at the times indicated above and by email!

About us

- Staff
- Faculty Overview
- Dean's Office
- Faculty Conference
- Scientific Advisory Board
- Gender Equality and Diversity** ▾
- Equal Opportunities Working Party
- Diversity Coordinator

Open Office Day 8.10.2024 10:00-14:00, Room 3E51

Program

10:00 Introduction of the Diversity Coordinator and Preview *Celebrating Diversity in STEM* - an event of PhD students in February 2025

11:00 Culture and Equality @univie - introduction of the service department of the University of Vienna

12:00 Female Physicists @univie - from the first female graduate to the first Professor, a short input on the occasion of the Ada Lovelace Day: Celebrating Women in Science (in German)

13:00 Preview of semester program: [Lunchbreak Gespräche](#)

Questions



Study programs at the Faculty of Physics

- Bachelor Physics (instruction languages German and English)
- Bachelor Teaching Physics (instruction languages German and English)
- Master Physics (instruction language English)
- Master Computational Science (instruction language English)
- Master Teaching Physics (instruction languages German and English)
- Extension curriculum Basics for Computational Science (instruction languages German and English)
- Doctoral studies Physics (instruction language English)

Beginners

	SJ 19/20	SJ 20/21	SJ 21/22	SJ 22/23	SJ 23/24	Female
BA Physics	417	481	446	287	349	40%
BA Physics Teacher	125	146	88	108	76	37%
MA Physics	98	88	83	92	117	32%
MA Comp. Science	49	78	55	11	16	38%
MA Physics Teacher	41	37	32	40	28	36%
Total	730	830	704	538	586	38%

Legal basis for studies:

From admission until graduation you have rights and obligations, which guide you through your studies.

- [University law \(Universitätsgesetz 2002, II. Teil: Studienrecht\)](#)
- [By-laws of the University of Vienna – Study law](#)
- [Curriculum – legal basis of study program](#)

Curriculum (study plan)

- informs on **content and structure** of a study program.
- defines **study goals and the qualification profile** of graduates
- specifies, which **mandatory and elective modul groups** need to be passed positive in order to finish the master study Physics.
- contains descriptions of **moduls** (goals and structure of moduls, prerequisites, performance record, language)
- the master study encompasses 120 ECTS credits, corresponding to a full-time study with a study duration of 4 semesters.
- recommended study path encompasses ~30 ECTS credits per semester.

u:find – Course/Staff/Unit directory


- Searching for courses, exams, people or organisations
- Announcement of course and examination dates
- **Registration to courses and exams (forward to u:space)**

🔍 course, person, ...

SEARCH

HELP

Browse:

 [Course Directory](#)

 [Staff/Unit Directory](#)

u:find – Level 1: Course directory Directorate of Studies 26 - Physics



2024W

Warning! The directory is not yet complete and will be amended until the beginning of the term.

Directorate of Studies 26 - Physics

Inhaltliche und organisatorische Informationen zu den unten angeführten Studien finden Sie auf der Homepage <http://ssc-physik.univie.ac.at/> des StudienServiceCenters Physik.

Zusätzlich zur online-Anmeldung ist die persönliche Anwesenheit in der Vorbesprechung bzw. ersten Einheit der Lehrveranstaltungen unbedingt erforderlich! Bei Verhinderung ist die Lehrveranstaltungsleitung rechtzeitig (d.h. vor der Lehrveranstaltung) zu informieren, andernfalls kann der Platz in der Lehrveranstaltung an andere Studierende vergeben werden.

Informationen zum Angebot an Lehrveranstaltungen im Diplomstudium Lehramt erhalten Sie bei VSPL Hopf (martin.hopf@univie.ac.at)

[Bachelor Physics \(676 \[3\] - Version 2018\)](#) 

[Bachelor Teacher Training Programme: Physics \(193 058, 198 423\)](#) 

[Master Physics \(876 \[2\] - Version 2018\)](#)

[Master Computational Science \(910 \[2\] - Version 2022\)](#) 

[Master Teacher Training Programme: Physics \(196 058, 199 523\)](#)

[Extension Curriculum Basic Knowledge in Computational Sciences \(262 \[1\] - Version 2021\)](#) 

[Other courses](#) 

Last modified: Fr 28.06.2024 00:39

u:find – Level 2: course directory study program (e.g. MA Physics)



◀ 2024W

Warning! The directory is not yet complete and will be amended until the beginning of the term.

Chapter in Course Directory 2024W:

> Directorate of Studies 26 - Physics

Master Physics (876 [2] - Version 2018)

Group of elective modules Core (30 ECTS)

M-CORE 1 Advanced Computational Physics (10 ECTS)

• EXAM M-CORE 1 Written Module Exam Advanced Computational Physics

M-CORE 2 Advanced Electronic Structure (10 ECTS)

260064 VO • en Advanced Electronic Structure

260066 PUE • en Advanced Electronic Structure

M-CORE 3 Advanced Particle Physics (10 ECTS)

M-CORE 4 Advanced Physics of Nuclei and Isotopes (10 ECTS)

• EXAM M-CORE 4 Written Module Exam Advanced Physics of Nuclei and Isotopes

M-CORE 5 Advanced Quantum Mechanics (10 ECTS)

• EXAM M-CORE 5 Written Module Exam Advanced Quantum Mechanics

260043 VO • en Advanced Quantum Mechanics

260050 PUE • en Advanced Quantum Mechanics

u:find – Level 3: Detailed course information (e.g. VU 260004)

260004 VU Scientific image processing (2024W)

5.00 ECTS (3.00 SWS), SPL 26 - Physik

Continuous assessment of course work

Tu 01.10. 09:45-12:15  PC-Seminarraum 3, Kolingasse 14-16, OG02

Registration/Deregistration

Note: The time of your registration within the registration period has no effect on the all

- Registration is open from **Th 05.09.2024 00:00** to **Mo 23.09.2024 23:59**
- Deregistration possible until **Fr 18.10.2024 23:59**

 [Register/Deregister for this course](#)

Details

max. 15 participants
Language: English

Lecturers

- [Roberto Cerbino](#)

Classes (iCal) - next class is marked with N

N Tuesday 01.10. 09:45 - 12:15 PC-Seminarraum 3, Kolingasse 14-16, OG02
 Tuesday 08.10. 09:45 - 12:15 PC-Seminarraum 3, Kolingasse 14-16, OG02
 Tuesday 15.10. 09:45 - 12:15 PC-Seminarraum 3, Kolingasse 14-16, OG02

Association in the course directory

M-VAF A 2, M-VAF B, Doktorat Physik

- M-VAF A 2 Specialization in current research topics A 2 (10 ECTS)
Master Physics (876 [2] - Version 2018) → Alternative compulsory module
- M-VAF B Specialization in current research topics B (20 ECTS)
Master Physics (876 [2] - Version 2018) → Compulsory module Spec
- Physics

u:find – Exam registration

Example: M-CORE 1 exam

1.

Kapitel im Vorlesungsverzeichnis 2024W:
> Studienprogrammleitung 26 - Physik


Master Physics (876 [2] - Version 2018)

Wahlmodulgruppe Core (30 ECTS)

M-CORE 1 Advanced Computational Physics (10 ECTS)

• PRÜFUNG M-CORE 1 Written Module Exam Advanced Computational Physics

M-CORE 2 Advanced Electronic Structure (10 ECTS)

260064 VO  Advanced Electronic Structure

260066 PUE  Advanced Electronic Structure

M-CORE 3 Advanced Particle Physics (10 ECTS)

M-CORE 4 Advanced Physics of Nuclei and Isotopes (10 ECTS)

• PRÜFUNG M-CORE 4 Written Module Exam Advanced

2.

3.

Modulprüfung

M-CORE 1 Written Module Exam Advanced Computational Physics (2024W)

10.00 ECTS, SPL 26 - Physik

• WANN? Freitag 25.10.2024 12:45 - 15:15  Seminarraum A, Währinger Straße 17, 2. Stk., 1090 Wien

An/Abmeldung

Hinweis: Ihr Anmeldezeitpunkt innerhalb der Frist hat keine Auswirkungen auf die Platzvergabe (kein "first come, first served")

- Anmeldung von **Mo 23.09.2024 08:00** bis **Fr 18.10.2024 12:00**
- Abmeldung bis **Di 22.10.2024 12:00**

 Für diese Prüfung an-/abmelden

Prüfer*innen

- Sebastian Falkner
- Andreas Tröster

Modulprüfung

M-CORE 1 Written Module Exam Advanced Computational Physics (2024W)

10.00 ECTS, SPL 26 - Physik

N **Fr 25.10.2024 12:45 - 15:15** Seminarraum A, Währinger Straße 17, 2. Stk., 1090 Wien
Fr 06.12.2024 13:30 - 16:00 Erwin-Schrödinger-Hörsaal, Boltzmanngasse 5, 5. Stk., 1090 Wien
Fr 31.01.2025 09:15 - 11:45 Erwin-Schrödinger-Hörsaal, Boltzmanngasse 5, 5. Stk., 1090 Wien

Study law: courses with non-continuous (NPI) or continuous assesment (PI)

NPI courses

- Lectures (VO)
- Registration in u:find
- However, there are no obligations attached to the registration
- automatic access to Moodle
- Performance is determined by a course examination or module examination (one "examination act")
- Repeat dates for exams (3 dates at the beginning, middle, end of the following semester)

PI courses

- (exam preparation) exercises ((P)UE), seminars (SE), lab courses (PR/LP)
- Timely registration in u:space required (SPL determines how space is allocated, bulletin)
- Oral and/or written partial performances are required
- The overall grade is determined from these partial performances (info in u:find)
- compulsory attendance in the 1st unit (confirmation of attendance)

Study law: Courses preparing for exams

Exercises (UE), Seminars (SE),...

- Compulsory according to curriculum
- ECTS are part of the study program (Curriculum)
- Registration via u:find required

Preparing exercises (PUE)

- Not curriculum-relevant
- ECTS are not part of the Master program
- serve as preparation for the module exam
- Registration is not obligatory, but recommended
- With the registration via u:find the participation is obligatory and one receives a grade according to the partial performances achieved
- Contents are inherently examined in the module

Study law: Registration & Deregistration deadlines

PI courses

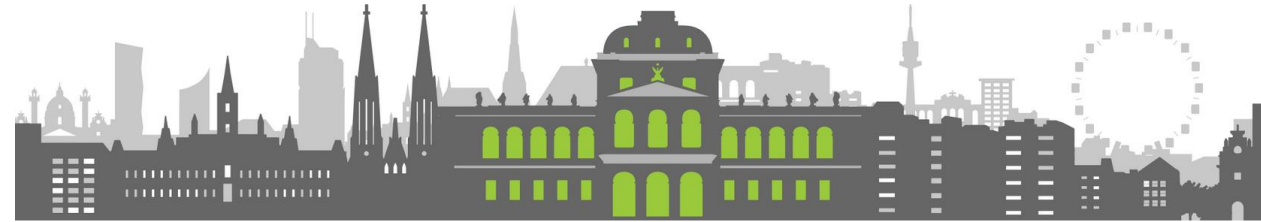
- Must be adhered to without exception!
- Are announced in the u:find
- Students can deregister on their own until the end of the deadline, after that a valid reason has to be proven.
- If you do not show up for the 1st unit without a valid reason, you will be deregistered by the lecturer.
- If you have confirmed your place with your attendance in the 1st unit, you will be evaluated if you do not deregister.

Exams

- Must be adhered to without exception!
- Are announced in u:find
- Only registered students are allowed to take part in an exam.
- Lecturers and SSC do NOT carry out late registrations!
- Students can deregister independently until the deregistration deadline, afterwards by the lecturer, if a valid reason is given.
- Failure to appear will result in suspension from the next examination date

u:space – the portal for your studies

- Application for admission to studies
- Ordering the u:card
- Payment of tuition/ÖH fees
- Registering for/deregistering from courses and exams
- Checking grades and study progress in the examination passport
- Downloading and printing your study documents (collective certificate, confirmation of study, study sheet, etc.)
- Room information (room type, equipment, capacity, location of rooms)



Moodle – E-Learning platform of the University of Vienna

- Registration to Moodle-courses is automatically done with the registration in u:find
- Exchange between teachers and students about related courses
- Access to learning materials like scripts, slides, exercise sheets, handouts
- Working on tasks for partial performance, online intermediate tests
- Forum for students

Recognition for previous study achievements

- Recognitions are regulated in the Universities Act §78. Study achievements from other studies or from other universities can be recognized for a study program if there are no significant differences with regard to the acquired competences (learning outcomes) defined in the curriculum.
- If you are not clear about that: contact the responsible V-SPL/SPL before you hand in the forms
- Information at <https://ssc-physik.univie.ac.at/studieren/anerkennungen/>

Recognition for previous study achievements

- Recognition can only be carried out by means of a **formal application**.
- Recognition for examinations, other academic achievements, activities and qualifications already **completed BEFORE admission** must be applied for **no later than the end of the second semester of the course of study**.
- **Recognized courses must be used toward the degree.**
- Information on formal and content criteria can be found on the [Studienpräses office page](#) (German).

Questions



Code of Conduct:

- The CoC lays down a binding framework of conduct.
- The members of the University of Vienna shall familiarise themselves with the applicable regulations and guidelines and be conscious of the share which they personally take in this joint responsibility.
- Good academic practice
- Relations between members of the University of Vienna

The University of Vienna conceives itself as a **community of all its members**: individuals of different age and sex, of different social and geographic origin, shaped by different situations in life and by different experiences, world views, and abilities. **Hence any dealings between members of the University shall be marked by mutual respect and esteem. Intolerance, discriminating or offensive behaviour, or favouritism, will not in any way be accepted at the University of Vienna;**

Code of Conduct:

- **Sexual harassment and mobbing** of any kind are incompatible with the principle of mutual respect in interpersonal relations; they shall therefore **not in any way be tolerated at the University of Vienna, and may prompt sanctions under criminal or labour law**. In particular, in relationships of dependency (e.g., executive/staff, teacher/student), it is of the utmost importance to keep an appropriate distance.
- Contact points, if you are affected by unacceptable behavior on the part of your colleagues:

[Sexual Harassment & Bullying Counselling Office](#)

[Threat Management of the University of Vienna](#) **+43-1-4277-777**

Diversity coordinator and Executives of the Faculty

Accessible Studying team (“Team Barrierefrei”)

For students with special needs:

- Motor, sensory, or mental impairments.
- Chronic illnesses
- Autistic perception
- Learning and reading disabilities
- Acute, injury, accident sequelae

Assistance with:

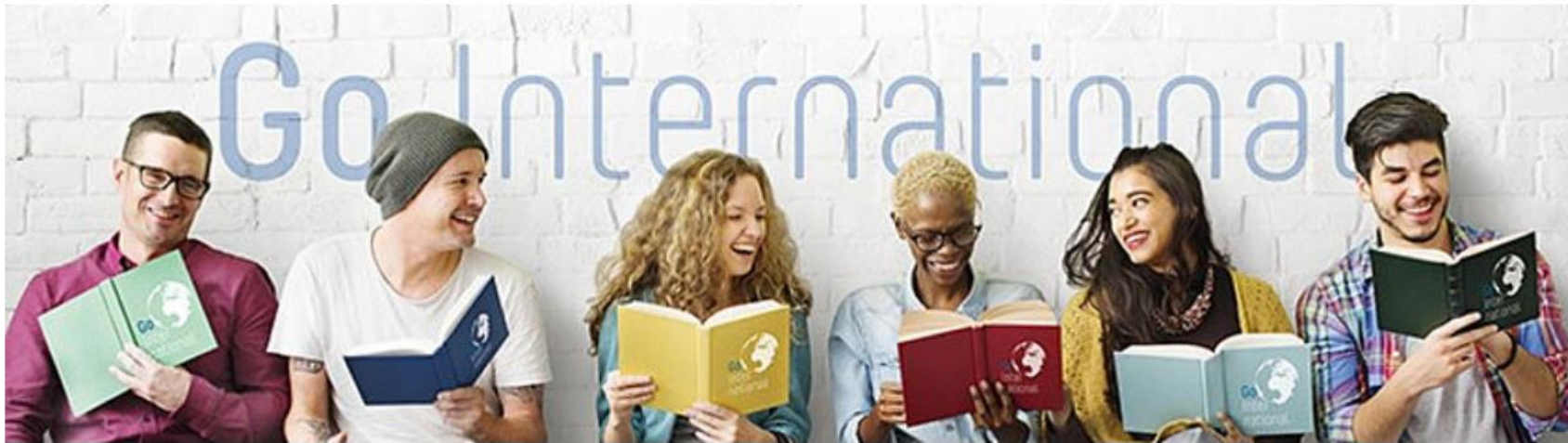
- Recommendations to program directors
- Adaptation of exams and curricula to meet individual needs
- Support and technology in the course of study
- Financial support and leave of absence

Accessible Studies: studieren.univie.ac.at/en/accessible-studies/

- Students with impairments, disabilities or illnesses
- The aim is to compensate for disadvantages in exams and PI courses caused by impairments.
- Counselling of the "Accessible Studying team ([Team Barrierefrei](#))" is held in German and English.
- The study program directors make recommendations regarding changes in examination methods.
- The study program directors are the direct contact persons who, if contacted in time, can adapt the course and examination schedule to you.
- For more information see <https://ssc-physik.univie.ac.at/en/studying/alternative-methods-of-examination/>

Student mobility (International Office)

Go International!



A visit abroad whilst studying is the best way to get to know new countries, (knowledge) cultures, languages and people.

The benefits you gain from this experience will stay with you your whole life long!

Mobility coordinator @ Faculty of Physics: Dr. Jürgen Klepp (see [SSC Physics webpage](#))

- 370 European partner universities
- 2800 Erasmus+ spots to study
- UNIVIE is Circle U. universities partner
- Simplified enrolment process
- Simplified recognition of completed courses

Student Mobility

Outgoing Students	▼
Erasmus+ Student Exchange	←
Erasmus+ Traineeships	
Non-EU Student Exchange Program	
Erasmus+ International Mobility	
Short-term grants abroad (KWA)	
Erasmus+ Blended Intensive Programmes	
Further stays abroad	
Incoming Students	

Questions



MA Physics

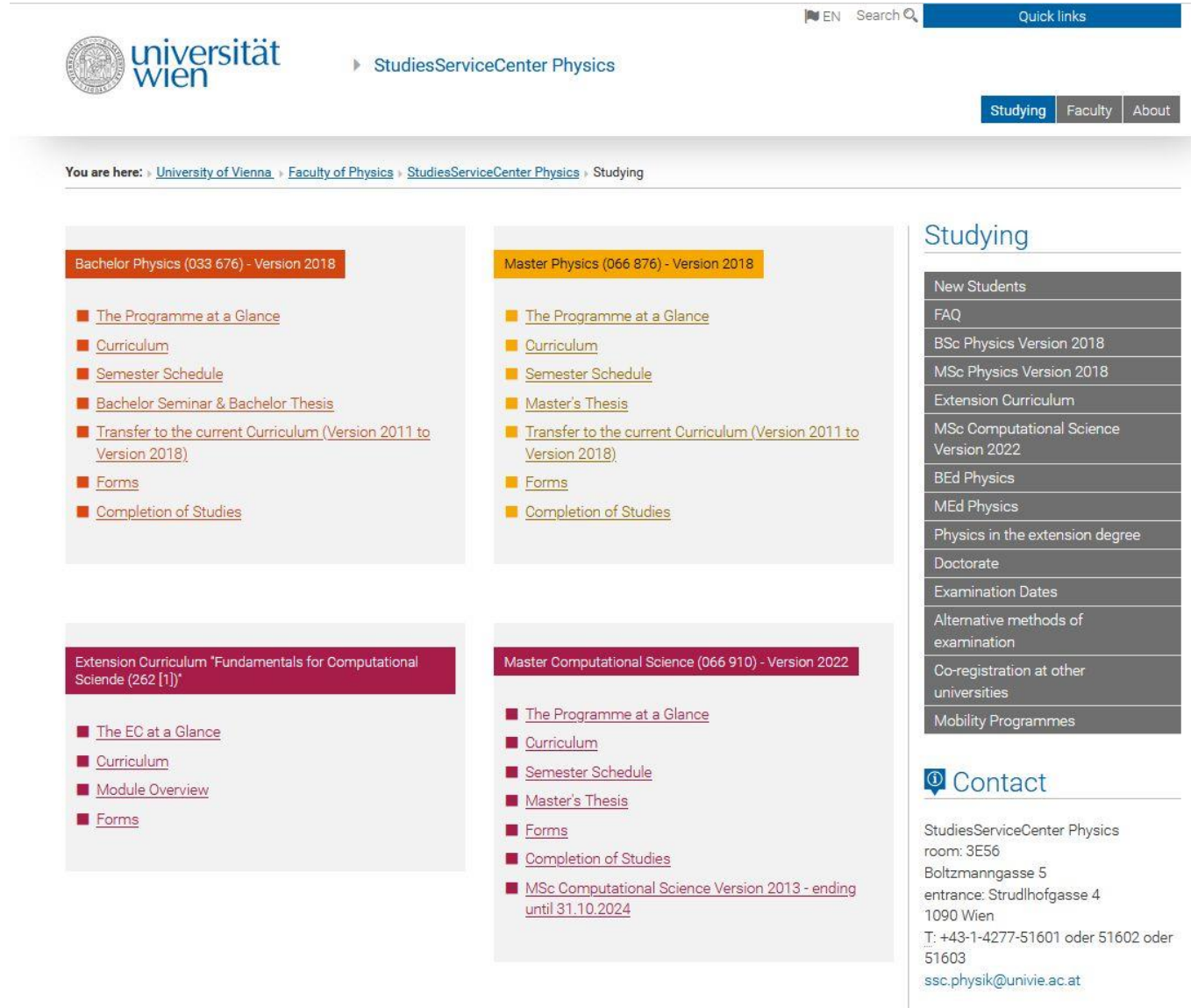
MA Physics Curriculum: §1 Objectives and qualification profile

(1) Based on the comprehensive general education in the field of physics during the bachelor's programme, the master's programme in Physics at the University of Vienna **allows students to choose an emphasis and specialisation**, and introduces them to the practice of academic research and writing. The master's programme in Physics is based on the **research profile of the Faculty of Physics...**

(2) ...graduates of the master's programme in Physics at the University of Vienna are qualified to observe complex phenomena in nature and technology by means of experiments and to describe these in a theoretical and mathematical way or to simulate and model these aided by computers. They have profound knowledge of and are **able to apply modern research methods in their discipline**. Through their profound academic education and their ability to think analytically in research, **graduates are qualified to work independently and methodologically and develop problem-solving competences** in a variety of different areas.

Finding the information online:

<https://ssc-physik.univie.ac.at/en/>



The screenshot shows the website for the StudiesServiceCenter Physics at the University of Vienna. The header includes the university logo, navigation links for 'EN', 'Search', and 'Quick links', and a breadcrumb trail: 'University of Vienna > Faculty of Physics > StudiesServiceCenter Physics > Studying'. Below the header, there are four main content boxes, each with a title and a list of links:

- Bachelor Physics (033 676) - Version 2018**
 - [The Programme at a Glance](#)
 - [Curriculum](#)
 - [Semester Schedule](#)
 - [Bachelor Seminar & Bachelor Thesis](#)
 - [Transfer to the current Curriculum \(Version 2011 to Version 2018\)](#)
 - [Forms](#)
 - [Completion of Studies](#)
- Master Physics (066 876) - Version 2018**
 - [The Programme at a Glance](#)
 - [Curriculum](#)
 - [Semester Schedule](#)
 - [Master's Thesis](#)
 - [Transfer to the current Curriculum \(Version 2011 to Version 2018\)](#)
 - [Forms](#)
 - [Completion of Studies](#)
- Extension Curriculum 'Fundamentals for Computational Science (262 [1])'**
 - [The EC at a Glance](#)
 - [Curriculum](#)
 - [Module Overview](#)
 - [Forms](#)
- Master Computational Science (066 910) - Version 2022**
 - [The Programme at a Glance](#)
 - [Curriculum](#)
 - [Semester Schedule](#)
 - [Master's Thesis](#)
 - [Forms](#)
 - [Completion of Studies](#)
 - [MSc Computational Science Version 2013 - ending until 31.10.2024](#)

On the right side of the page, there is a 'Studying' section with a list of links: 'New Students', 'FAQ', 'BSc Physics Version 2018', 'MSc Physics Version 2018', 'Extension Curriculum', 'MSc Computational Science Version 2022', 'BEd Physics', 'MEd Physics', 'Physics in the extension degree', 'Doctorate', 'Examination Dates', 'Alternative methods of examination', 'Co-registration at other universities', and 'Mobility Programmes'. Below this is a 'Contact' section with the following information:

Contact
StudiesServiceCenter Physics
room: 3E56
Boltzmanngasse 5
entrance: Strudlhofgasse 4
1090 Wien
T: +43-1-4277-51601 oder 51602 oder 51603
ssc.physik@univie.ac.at

MA Physics

Semester Schedule for the Master's Degree in Physics

In order to complete the master's degree in the intended time of four semesters, students are advised to follow the following semester schedule.

Semester Schedule Master Physik

	1st Semester 30 ECTS	2nd Semester 30 ECTS	3rd Semester 30 ECTS	4th Semester 30 ECTS
Wahlmodule	3 Modules from Elective Modules "Core" M-CORE 1-12 (30 ECTS)	Specialisation in Current Research Topics A M-VAF A1 or M-VAF A2 (10 ECTS)	Specialisation in Current Research Topics B M-VAF B (10 ECTS)	Master's Thesis (27 ECTS)
Advanced Computational Physics		Specialisation in Current Research Topics B M-VAF B (10 ECTS)	Extension M-ERG (10 ECTS)	Defensio (3 ECTS)
Advanced Electronic Structure				
Advanced Particle Physics			Extension M-ERG (10 ECTS)	
Advanced Physics of Nuclei and Isotopes			Specialisation M-SPEZ (10 ECTS)	
Advanced Quantum Mechanics				
Advanced Statistical Physics and Soft Matter Physics				
Allgemeine Relativitätstheorie und Kosmologie				
Atmosphärische Aerosolphysik				
Experiments in Quantum Optics & Quantum Information				
Physik der kondensierten Materie				
Streuung, Mikroskopie und Spektroskopie				
Theory of Quantum Optics & Quantum Information				

Studying

New Students

FAQ

BSc Physics Version 2018

MSc Physics Version 2018 ▼

Semester Schedule

Courses

Master's Thesis

Transfer to the current Curriculum
(Version 2018)

Forms

Completion of Studies

Extension Curriculum

MSc Computational Science
Version 2022

BEd Physics

MEd Physics

Physics in the extension degree

Doctorate

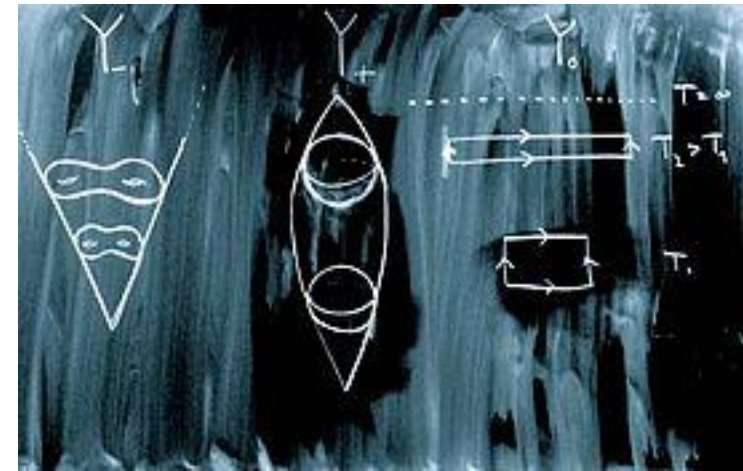
Examination Dates

Master Class Mathematical Physics

<https://mcmp.univie.ac.at/>

MCMP is an initiative **within** the master programs "Mathematics" and "Physics" for students interested in the intersection of the two disciplines

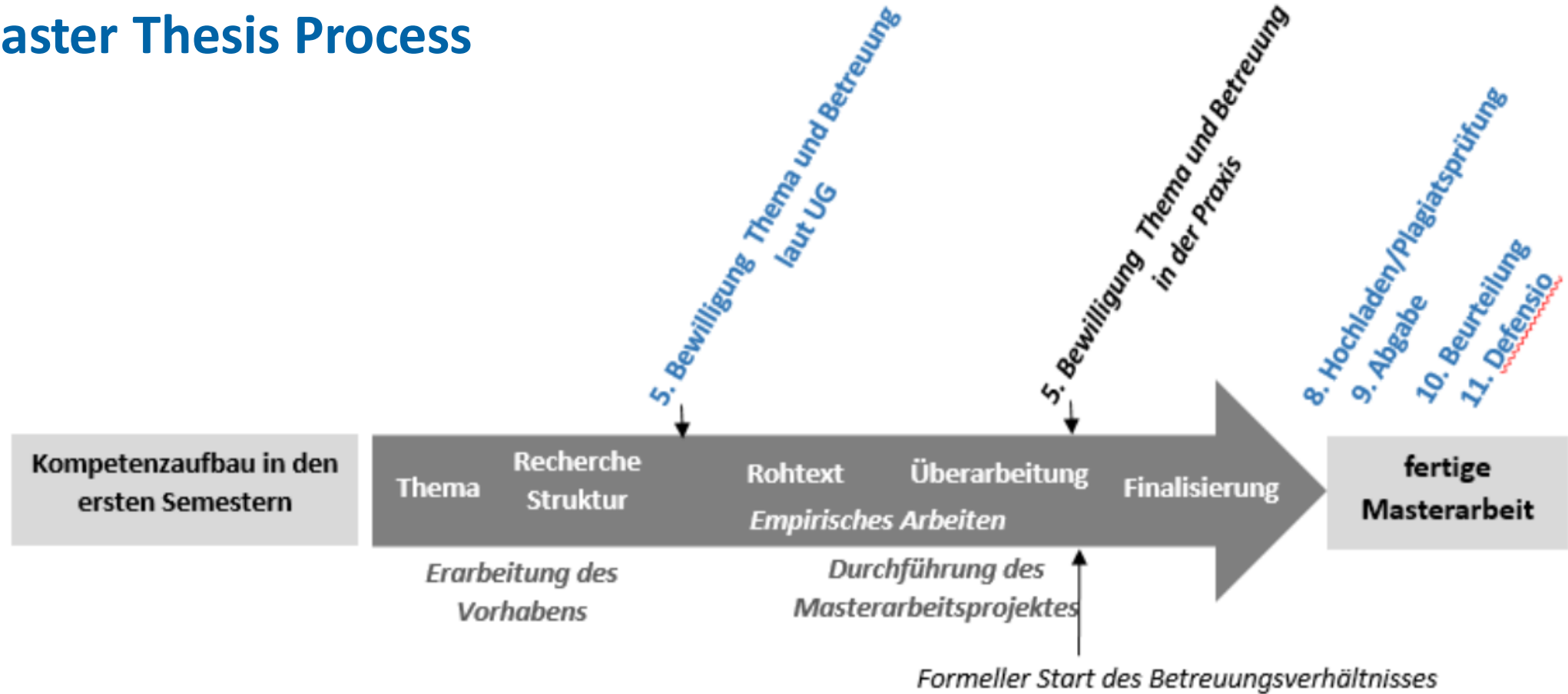
- MCMP seminars
- Advice on relevant courses, counselling
- Letter of recommendation upon successful completion



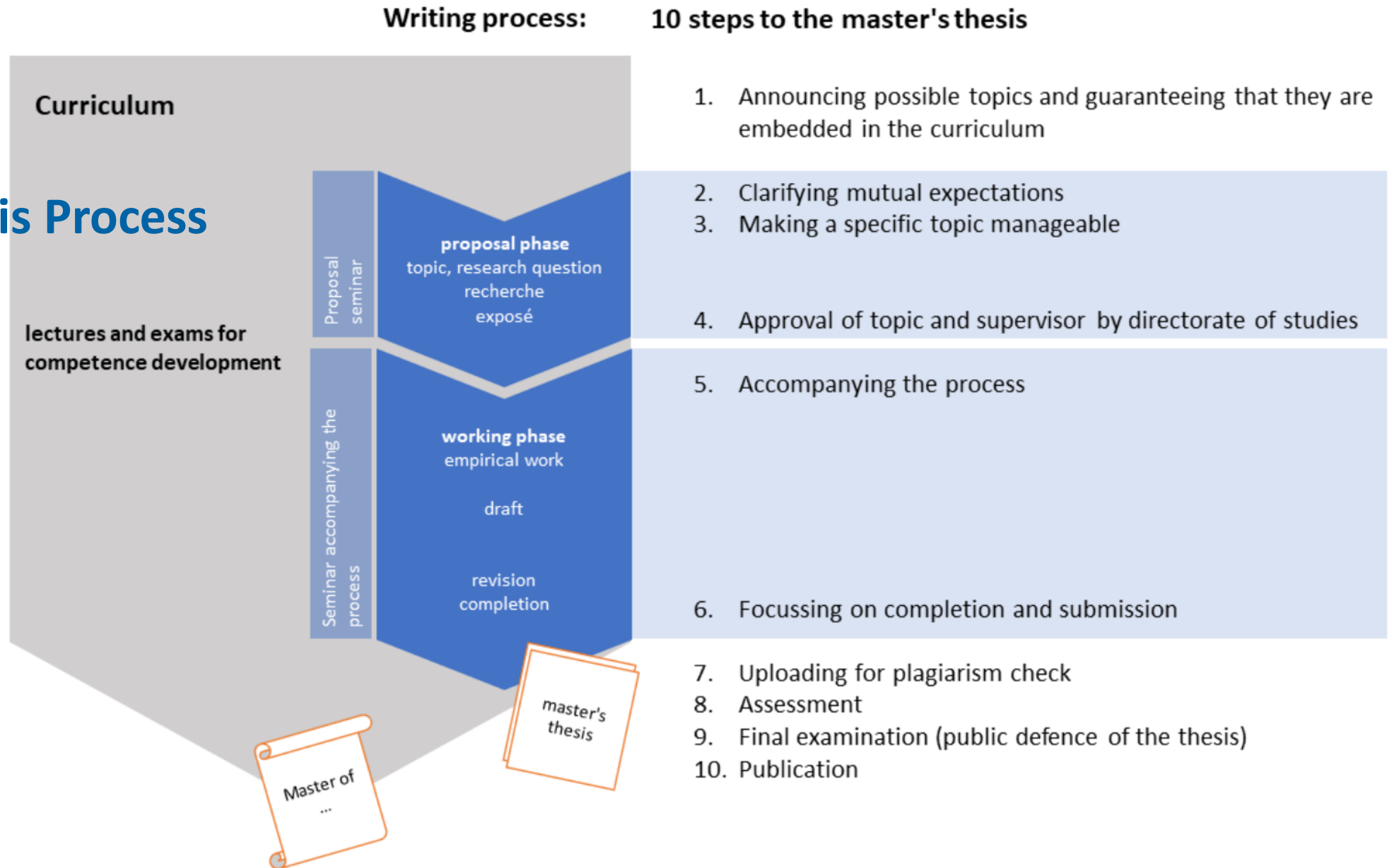
Master Thesis Process

- The UG 2002 stipulates that a master's thesis can be written within six months if the topic is available, see §81(2).
- As a formal start of these six months: registration of topic and supervision
- For registering the topic and supervision: forms are available at the [SSC Physics](#) webpage. Additionally an Exposé (signed by the supervisor and the student) is required.
- The master thesis represents the first steps in independent scientific work.
- Often takes place within the framework of current research projects.
- **The master's thesis is the most extensive project of your studies to date; a project in which you experience its ups and downs.**

Master Thesis Process



Master Thesis Process



Offers for academic writing

- Literature given in [260032 KU Specialization](#)
- [“Schreibmentoring”](#):
 - For students who want to build up and/or deepen their scientific writing competence (in German).
 - Input on many topics of scientific writing: scientific language, text production, dealing with literature, text revision, outlining, argumentation and much more.
 - Information about the weekly group meetings are announced by the SPL via Newsletter

Questions



Building and Library tours

- Meeting point: Aula (ground floor)
- from 1p.m. every 20-minutes
- If you want to partake, please sign up for a group in the lists that are laid out in the Aula.

(the tours are in German per default, but we can sort out any language barriers for sure – all guides speak English as well. Mark “English” next to your name so we can sort it out in time please)

MA

Computational Science

MA CS Curriculum: §1 Objectives and qualification profile

(1) ... is a sound education in computational and mathematical methods of this modern, interdisciplinary approach and their practical application in natural sciences (astronomy and astrophysics, biology, chemistry, meteorology, pharmacy and physics).

(2) ... graduates ...are qualified to **develop solutions for complex problems in natural sciences aided by computers** in interdisciplinary teams. They are able to capture problems in natural sciences in models, to **develop algorithms and software to address these problems, to make computations on modern computer systems and to analyse and visualise data and models**. For this, they are making use of **knowledge of numerical mathematics, modern programming paradigms and high-performance computing** acquired in the master's programme. Graduates are familiar with **methods of data-driven research** (data science and machine learning) and their application in natural sciences.

MA CS study program: Finding information

- [Curriculum](#)
- [SSC Physics](#)

You are here: [University of Vienna](#) > [Faculty of Physics](#) > [StudiesServiceCenter Physics](#) > Studying

Bachelor Physics (033 676) - Version 2018

- [The Programme at a Glance](#)
- [Curriculum](#)
- [Semester Schedule](#)
- [Bachelor Seminar & Bachelor Thesis](#)
- [Transfer to the current Curriculum \(Version 2011 to Version 2018\)](#)
- [Forms](#)
- [Completion of Studies](#)

Master Physics (066 876) - Version 2018

- [The Programme at a Glance](#)
- [Curriculum](#)
- [Semester Schedule](#)
- [Master's Thesis](#)
- [Transfer to the current Curriculum \(Version 2011 to Version 2018\)](#)
- [Forms](#)
- [Completion of Studies](#)

Extension Curriculum "Fundamentals for Computational Science (262 [1])"

- [The EC at a Glance](#)
- [Curriculum](#)
- [Module Overview](#)
- [Forms](#)

Master Computational Science (066 910) - Version 2022

- [The Programme at a Glance](#)
- [Curriculum](#)
- [Semester Schedule](#)
- [Master's Thesis](#)
- [Forms](#)
- [Completion of Studies](#)
- [MSc Computational Science Version 2013 - ending until 31.10.2024](#)

Studying

- New Students
- FAQ
- BSc Physics Version 2018
- MSc Physics Version 2018
- Extension Curriculum
- MSc Computational Science Version 2022**
- BSc Physics
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Contact

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Room: 3E56
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entrance: Strudlhofgasse 4
1090 Wien
T: +43-1-4277-51601 oder 51602 oder 51603
ssc.physik@univie.ac.at

MA CS study program: Finding information

- [Curriculum](#)
- [SSC Physics](#)
- [U:find](#)
(course list of the
current term)

Chapter in Course Directory 2023W:

> Directorate of Studies 26 - Physics

Master Computational Science (910 [2] - Version 2022)

The faculty welcomes all new students enrolled in our Master Physics and Master Computational Science programs as well as all advanced students to a Master Welcome Day 2023/2024.

Details can be found at https://ssc-physik.univie.ac.at/fileadmin/user_upload/s_ssc_physik/Master/Master_Welcome_Day.pdf

In order to be able to register for courses for the Master's programme "Computational Science", you must first select your focus. To do this, open u:space, select "Exam Pass" in the "Studies" grid and open "Master's programme Computational Science". Scroll to the end of the exam pass and select your focus. The SSC Physics will promptly confirm the focus you have set.

After these steps have been successfully completed, you can then select the Master's programme in the course reservations.

APMG-A Foundations of Computational Science A (for graduates with pre-studies in natural science) (24 ECTS)

PN-NUM1 Compulsory Module Numerical Mathematics 1 (12 ECTS)

262001 VO [en](#) Numerical Mathematics 1

262002 UE [en](#) Numerical Mathematics 1 - Exercises

PMG-PA Compulsory Module Programming and Algorithms (12 ECTS)

PROG Compulsory Module Programming (6 ECTS)

051020 VU [de](#) [en](#) Programming 2

PLC Compulsory Module Programming Languages and Concepts (6 ECTS)

051030 VU [en](#) Programming Languages and Concepts

MA CS study program: recommended path

Depending on previous studies:

- Natural sciences:
Path A
- Mathematics:
Path B
- Computer Science:
Path C

1st Semester 30 ECTS			2nd Semester 30 ECTS	3rd Semester 33 ECTS	4th Semester 27 ECTS
Path A	Path B	Path C			
Numerical Mathematics 1 PM-NUM1 (12 ECTS)	Programming & Algorithms PMG-PA (12 ECTS)	Numerical Mathematics 1 PM-NUM1 (12 ECTS)	Numerical Mathematics 2 PM-NUM2 (8 ECTS)	Academic Skills & Ethics PM-ASE (3 ECTS)	Master's Thesis (25 ECTS)
Programming & Algorithms PMG-PA (12 ECTS)	Computational Natural Sciences WMG-NAT (12 ECTS)	Computational Natural Sciences WMG-NAT (12 ECTS)	Algorithms & Data Structures PM-ADS (4 ECTS)	Specialisation PM-SPEC (20 ECTS)	
Data Science (6 ECTS)			Advanced Comp. Science PM-ACS (18 ECTS)	Extension PM-EXT (10 ECTS)	Defensio (2 ECTS)

Questions



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MA

Lehramt UF Physik

Informationsveranstaltung

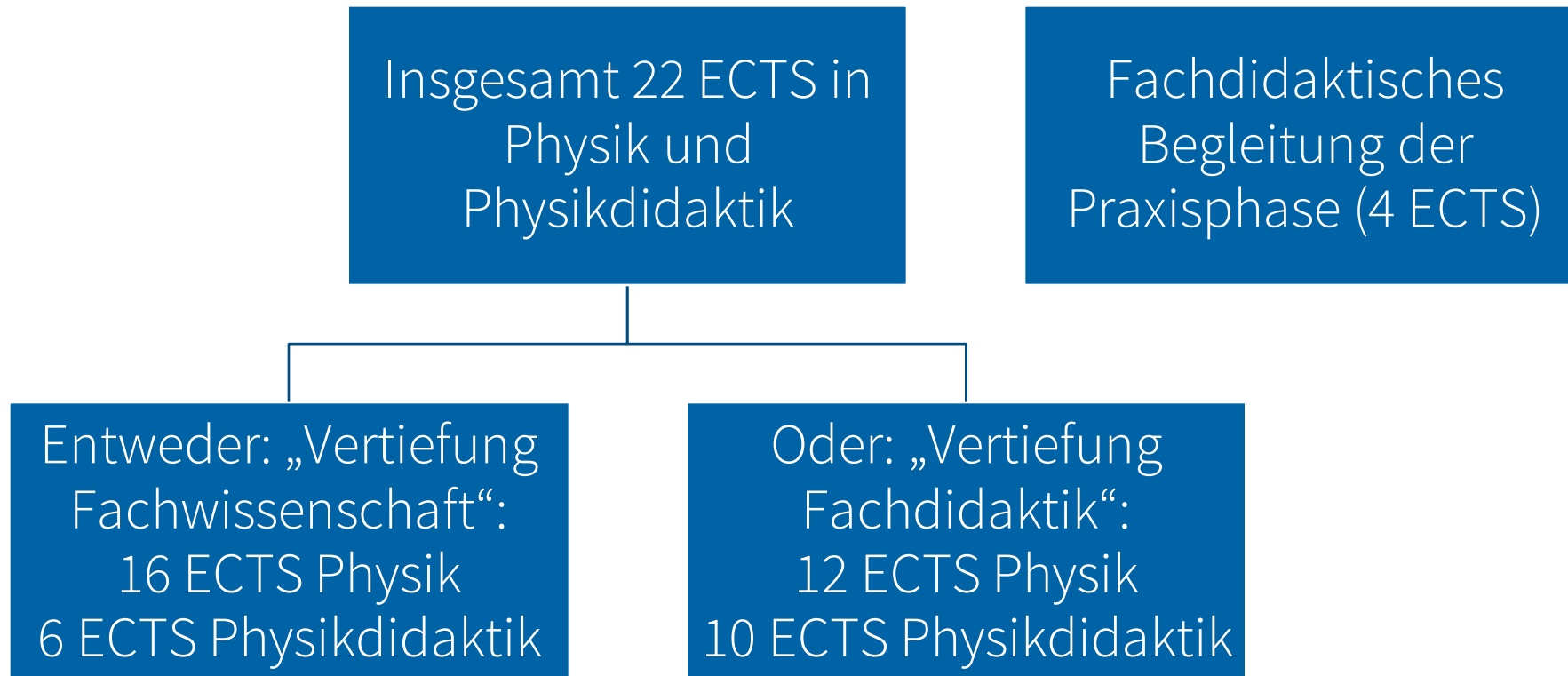
für Studierende im M.Ed.



Themen

- Masterstudium
- Praxisphase
- Masterarbeiten
- Defensio

Masterstudium



Physik

Studierende vertiefen die im Bachelorstudium erworbenen Fachkenntnisse in der Physik. Sie erwerben dabei methodische Kenntnisse und Fertigkeiten aus den Bereichen Experimentelle Physik, Theoretische Physik, Computergestützte Physik oder Physik mit Alltagsbezug, welche zur Durchführung einer fachwissenschaftlichen Masterarbeit erforderlich sind.

Konkret:

- Es gibt immer wieder LV speziell fürs UF
- Sonst: Großes Angebot aus dem Physikstudium

Physikdidaktik

- Großes und variierendes Angebot an fachdidaktischen LVs
- Hauptsächlich als Block-LV angeboten.
- Wählen Sie selbst. Aber bedenken Sie, was Sie noch nicht so gut können. (Leistungsbeurteilung? E-Kompetenz? S-Kompetenz?)

Praxisphase

- Anmeldung über das Praktikumsbüro im Vorsemester.
- Auch, wenn Sie die Praxisphase an der eigenen Schule machen wollen.
- Alle müssen das Begleit-SE besuchen.

Masterarbeiten

- Entscheiden Sie sich für ein Fach.
- Suchen Sie eine/n Betreuer/in
- Offiziell dürfen alle Habilitierten der Fakultät eine Masterarbeit betreuen.
- Rechnen Sie nicht damit, ein Thema in Physikdidaktik zu bekommen.
- Rechnen Sie mit mindestens einem halben Jahr Vollzeit.
- Kalkulieren Sie Ihre Arbeitsbelastung, insbesondere wenn Sie schon unterrichten.
- Fangen Sie frühzeitig mit der Masterarbeit an.

Defensio

- Ein Defensio in beiden Fächern, ca. 1 Stunde.
- Die Details besprechen Sie mit ihrem Masterarbeits-Betreuenden.
- Sie organisieren Termin und die Kommission.
- Die Anmeldung erfolgt per Formular auf elektronischem Weg im SSC des Unterrichtsfachs mit Masterarbeit, mindestens 14 Tage vor der Defensio.

<https://studienpraeses.univie.ac.at/infos-zum-studienrecht/auslaufendes-diplomstudium-lehramt-infos-und-formulare/>

Ein Wort zur Unterrichtstätigkeit

- Kalkulieren Sie ihre Arbeitsbelastung sorgfältig.
- Besonders in der Zeit, in der Sie an der Masterarbeit arbeiten.

Fragen?

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