**Leipzig University**

**Faculty of Physics and Earth Sciences**

**Unofficial, automated translation of the First Amendment to the Study Regulationsfor the Bachelor's Program International Physics Studies Program (Honours)**

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# First Amendment

## to the Study Regulations for the

### English-language Bachelor's Program

### INTERNATIONAL PHYSICS STUDIES PROGRAM (HONOURS)

### at Leipzig University

**Dated April 2, 2025**

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Pursuant to the Higher Education Act of the Free State of Saxony (Sächsisches Hochschulgesetz – SächsHSG) dated May 31, 2023 (SächsGVBl. p. 329), last amended by Article 2 of the Act dated January 31, 2024 (SächsGVBl. p. 83), Leipzig University has enacted the following **First Amendment to the Study Regulations** for the Bachelor's program *International Physics Studies Program (Honours)* on March 27, 2025:

# Article 1

The Study Regulations for the Bachelor's program *International Physics Studies Program (Honours)* at Leipzig University, dated September 29, 2022 (Official Notices of Leipzig University No. 20, pp. 41–88), are amended as follows:

## 1. Addition to §2

A new paragraph 3 is added:

"In addition, proof of **German language skills at level A1** in accordance with the Common European Framework of Reference for Languages is required for admission to the program. These language skills are intended to facilitate integration into the new social and cultural environment and support long-term perspectives."

# 2. Amendment to §6

The first sentence is reworded as follows:

“The forms of instruction are:

- Lecture
- Lecture with integrated exercises
- Ring lecture
- Exercise
- Language course
- E-learning course
- Seminar
- Seminar with exercise component
- Small group seminar
- Colloquium
- Internship”

# 3. Amendment to §8

Paragraph 7 is replaced with:

“Courses in the non-physics elective area may also be held in **German**.
This also applies to individually selected additional modules.
Students without sufficient German proficiency who wish to take modules taught in German in the non-physics elective area are advised, depending on their current skills, to take further language courses as specified in §26 (3) No. 6 sentence 4.
Students **with sufficient German language skills** are **excluded** from these language courses.”

# 4. Appendices and Module Changes

## a) Newly Added Modules:

- Action Competence for Sustainability in Living Labs (12-PHY-BMWBNE2)
- Numerical Approaches to Theoretical Physics (12-PHY-BMWNUM)
- Fundamentals of Magnetism (12-PHY-BMWSUM)
- Introduction to Systems Biophysics (12-PHY-BMWESB)
- Introduction to Medical Physics 1 (12-PHY-BMWMED1)
- Introduction to Medical Physics 2 (12-PHY-MWPMED2)
- Quantum Communication (12-PHY-BMWQC1)
- Quantum Sensing (12-PHY-BMWQS1)
- Quantum Information Theory (12-PHY-BMWQIT)
- Introduction to General Relativity (12-PHY-BMWMMP1)
- Mathematical Methods of Modern Physics (12-PHY-BMWMME)
- Specialized Topics of Solid State Physics (12-PHY-MWPSKM)
- Specialized Topics of Soft Matter Physics (12-PHY-MWPSWM)
- Specialized Topics of Theoretical and Mathematical Physics (12-PHY-MWPSMP)

- Specialized Topics of Theoretical Physics (12-PHY-MWPSTP)
- Magnetic Resonance and Imaging in Soft Matter (12-PHY-MWPAMR1)
- Quantitative Systems Biophysics (12-PHY-MWPQSB)
- Practical Course: Quantum Theory of Condensed Matter (12-PHY-MWPCQM1)
- Physics of Driven and Open Quantum Systems (12-PHY-MWCQM2)
- Geometry and Topology in Quantum Matter (12-PHY-MWPCQM3)
- Statistical Mechanics of Deep Learning (12-PHY-MWPSTP2)
- Black Holes (12-PHY-MWPMMP1)

## b) Removed Modules:

- Numerical Methods in Physics (12-PHY-BWNUM)
- Spin Resonance II (12-PHY-MWPMQ2)
- Modern Developments in Solid State Physics (12-PHY-MWPHS1)
- High Temperature Superconductors (12-PHY-MWPHS2)
- Biological Physics (12-PHY-MWPHS3)
- Quantum Field Theory and Gravity (12-PHY-MWPHS4)
- Quantum Field Theory (12-PHY-MWPHS5)
- Cell Mechanics (12-PHY-MWPHS6)
- Condensed Matter Theory (12-PHY-MWPHS7)
- Quantum Statistical Physics (12-PHY-MWPHS9)
- Molecular Nanotechnology (12-PHY-MWPHS10)
- Quantum Optics (12-PHY-MWPHS11)
- Complex Systems (12-PHY-MWPHS12)
- Complex Quantum Systems (12-PHY-MWPHS13)

## c) Other Structural Changes:

- The **Physics Elective Module placeholder** is expanded to **40 CP** and renamed.
- The **Non-Physics Elective placeholder** is renamed for clarity.
- The **Seminar placeholder** is renamed; must now include 5 CP in seminars.
- **General Physics Labs 1 & 2**:
    - Now require **prior completion** of specific modules (e.g., Experimental Physics 1).
    - Exam format: Practical work + written protocols (10 experiments).
- **Open Project Lab** becomes an elective module with recommendation for semester 5 or 7.
- **Experimental Physics 6** now includes a **written exam (180 min)**.
- **Order of Magnitude Physics** revised content + now evaluated by exercises.
- **Introduction to Chemistry**: exam format changed to **written exam (90 min)**.
- Multiple other modules (in Biophysics, Quantum Physics, Spectroscopy, etc.) receive updated prerequisites and exam formats.
- **Standardized prerequisites**: most now require submission of **Exercises (Übungsaufgaben)**.

# Article 2

1. This amendment enters into force on **October 1, 2025** and applies to all students enrolled in the IPSP (Honours) program.
2. Adopted by the **Faculty Council** on **November 25, 2024**.
3. Approved by the **Rectorate** on **March 27, 2025**.
4. All previously earned academic credits remain valid.
5. These changes will be integrated into future published versions of the study regulations.

**Leipzig, April 2, 2025**
**Prof. Dr. Eva Inés Obergfell**
**Rector**