



Regulations for the Doctoral Program Physics

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I. General Information

1. These regulations are based on the Ordinance for Obtaining a Doctoral Degree and the Doctoral Program Regulations Part A at MNF. They apply for all PhD students in experimental and theoretical Physics at MNF.
2. Detailed information on the program can be found on the Physics Institute's website at www.physik.uzh.ch/info/graduateschool.shtml.

II. Admission

Requirements for Admission are:

- A master's in Physics at a Swiss university, ETHZ, EPFL or an equivalent degree. The director of the doctoral program is responsible for the academic evaluation of master's degrees earned at institutes other than UZH, ETHZ or EPFL. The research group leader can demand the completion of specific courses as an additional requirement.
- A successful interview with a research group leader with the right to confer PhDs at the Physics Institute. At least one faculty member must attend.
- A positive decision by the research group leader and the faculty member present at the interview based on students' academic qualifications, the impression they made during the interview and the resources available.

III. Structure of the Doctoral Program

1. Curricular Portion

The doctoral committee determines each PhD student's curriculum individually. Their curriculum should focus on students' specific area of research, while also ensuring a solid general education in physics.

The following rule apply to accrediting seminars, participation in conventions and summer schools:

- Students must attend at least one convention or summer school on a scientific topic related to their dissertation per year. They will receive one ECTS Credit point per week of participation and an additional point for a personal contribution (presentation or poster).
- The annual UZH-ETHZ doctoral seminar is obligatory for particle physicists (1 ECTS Credit for participation plus 1 ECTS Credit for a presentation).
- Students must regularly attend the weekly research seminars during the entirety of their doctorate (no ECTS Credits).
- Cern academic training: 15 lessons at 45 minutes each are worth 1 ECTS Credit.
- Courses at UZH are worth the number of ECTS Credits listed in the course catalogue.

Students must earn a total of 12 ECTS Credits.

2. Teaching Assistance

A teaching assistance of at least 100 hours and no more than 420 hours is a component of the doctoral program. The practical trainings coordinator at the Institute of

Computational Science is responsible for the assignments. During the last semester before submitting their dissertation, PhD students can be dispensed from their teaching requirements if possible. External PhD students (who have members of the doctoral program as advisors, but are not hired there) generally only complete half the teaching load.

3. **Doctoral Agreement**
The doctoral agreement should be completed using the template (obtainable from the program coordinator).
4. **Doctoral Committee**
At least one permanent faculty member must be part of the doctoral committee. The doctoral committee should be annually informed on the project's progress and should, if necessary, modify the doctoral agreement.

IV. Doctoral Degree

1. When students apply for their PhD defense at the MNF Student Affairs Office, they should also submit two bound copies of their dissertation to the program coordinator.
2. **Cumulative dissertations**
Cumulative dissertations should include an introduction and discussion of conclusions. The PhD student's own contributions must be clearly evident.
3. **Circulation round:**
The circulation round consists of at least four faculty members at the Physics Institute in addition to the directly responsible faculty member. Other faculty members (Physical Chemistry, Astrophysics, etc.) may be included if called for by the subject matter. The circulation will be arranged by the program coordinator.
4. **Colloquium**
The colloquium involves a 30 minutes lecture, which is open to the public, and a subsequent 30 minute closed disputation on questions in the dissertation's subject area. The committee members as well as one additional faculty member must be present at the disputation. The reviewers and the direct PhD advisor will be invited to the disputation, even if they are neither members of the faculty nor the doctoral committee.