

Department Graduate Center Physics

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Qualification Program

- central: **individual, independent research embedded in the research groups of the department**
- supervision agreement with mentor (can be changed during Ph.D. project)
- project plan with detailed plans and milestones
 - find the most suitable form of this together with your supervisor (template available)
 - keep it up-to-date
- requirements:
 - kick-off seminar by TUM GS
 - subject-related training of at least 6 SWS (63 hours)
 - a peer-reviewed publication or some other discussion of your work in the community
 - status discussion after two years latest
 - involvement in the academic environment via teaching
- benefits
 - summer/winter schools
 - invitation of speakers
 - internationalization support (travel expenses)
 - proofreading service for scientific publications

Kick-Off Seminar by TUM GS

- at the start of your Ph.D. project
- requirement of the qualification program
- register at <http://www.gs.tum.de/en/doctoral-candidates/qualification/kick-off-seminar/>

Subject-Related Training

- requirement of the qualification program is at least 6 SWS (63 hours)
 - equivalent to regularly visiting e.g. a group's Journal Club for three semesters
- external courses/seminars/... may be recognised – decision by your supervisor
- discuss with your supervisor
 - what courses/seminars/... to take
 - what certificates are required
- ignore DocGS for this, see <https://www.ph.tum.de/academics/phd/gs/member/>
- at the end of your Ph.D. project (several days before handing in)
 - enter all qualification elements at <https://www.ph.tum.de/academics/phd/gs/member/>
 - download the PDF report and hand it in (signed by you and your supervisor) at the FGC PH

Publication

- requirement of the qualification program is at least one peer-reviewed publication
 - in special cases this may be replaced by a presentation at an international conference
- you may use the TUM GS proofreading service for your publications
 - regularly publications with word count <10000
 - proof reading by native speaker with subject-related background
 - upload at <https://www.ph.tum.de/academics/phd/gs/member/proofreading/>
- ignore DocGS for this, see <https://www.ph.tum.de/academics/phd/gs/member/>
- at the end of your Ph.D. project (several days before handing in)
 - enter all qualification elements at <https://www.ph.tum.de/academics/phd/gs/member/>
 - keep in mind that TUM GS defined two different types of scientific talks
 - either like a publication or additional talks simply listed
 - download the PDF report and hand it in (signed by you and your supervisor) at the FGC PH

Status Discussion

- requirement of the qualification program within two years after start
 - regularly you will have such discussions far more often!
 - based on
 - a public presentation within the university (can be substituted by one at an academic conference),
 - a written interim report on the scientific work (can be substituted by an academic paper for publication),
 - an updated project plan and
 - a counseling session with your mentor.
- ignore DocGS for this, see <https://www.ph.tum.de/academics/phd/gs/member/>
 - we only need e-mail confirmation by your supervisor to gs@ph.tum.de that the status discussion took place and was successful
 - there will be an automated e-mail reminder

Internationalisation

- internal candidates (contract with TUM)
 - up to 1600 € from TUM GS (or 3000 € for more than four weeks)
 - as for all travel expenses regular “Dienstreiseantrag” and “Reisekostenabrechnung” is required
 - use DocGS for this (for the form „reimbursement: international activities“ only)
- external candidates (no contract with TUM)
 - apply for internationalisation grant (applicants are ranked by number of publications)
- all candidates
 - additional up to 1600 € from FGC PH as long as funding available
 - see FAQ <https://www.ph.tum.de/academics/faq/phd/international/>
- ignore DocGS for the inclusion on the certificate
- at the end of your Ph.D. project (several days before handing in)
 - enter all qualification elements at <https://www.ph.tum.de/academics/phd/gs/member/>
 - download the PDF report and hand it in (signed by you and your supervisor) at the FGC PH

Publication-Based (Cumulative) Dissertation

- A publication-based (cumulative) dissertation according to §6 (2) PromO is against common practice in Physics
 - faculty would closely investigate for equivalence to a monograph during the „Rundlauf“
 - "the dissertation is to demonstrate the candidate's ability to do independent research work and provide a clear description of the results" (§6 (1) PromO)
 - no advantages over a classic monograph – only additional time and effort
- a monograph does not exclude the publication of parts of the scientific results in journals
 - this is common practice in Physics
- See <https://www.ph.tum.de/academics/faq/phd/cumulative/>

Further remarks

- Qualification elements uploaded to DocGS will automatically be denied giving the reason
 - „In the FGC PH qualification elements have to be submitted via <https://www.ph.tum.de/academics/phd/gs/member/>.“
- Use your TUMonline e-mail address
 - provided by the Leibniz Supercomputing Center and regularly far better than any other mail server system
 - after your TUM career you can keep the address as a forwarder
- Questions on the Department Graduate Center: gs@ph.tum.de
- Questions on DocGS: docgs@zv.tum.de
- New designated manager of the Department Graduate Center:
 - Dr. Johannes Wiedersich