

Care was taken to ensure the text of these regulations is accurate and up-to-date; the present version may nevertheless contain errors. The official, legally binding version can be viewed in the Examinations Office, the Student Advising Office, or online at <https://www.amtliche-bekanntmachungen.uni-bayreuth.de/de/> Please note the effective dates of the amendments.

Doctoral Regulations
for the Faculty of Mathematics, Physics & Computer Science
at the University of Bayreuth
dated 20 September 2017
in the version dated 5 June 2025

Article 13 para 1 in conjunction with Article 64 para 1 sentence 5 of the Bavarian Higher Education Act (*BayHSchG*) forms the framework for the following doctoral regulations for the Faculty of Mathematics, Physics & Computer Science issued by the University of Bayreuth.

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Section I: General provisions

§ 1

Doctoral degree

- (1) ¹The University of Bayreuth, by way of Faculty of Mathematics, Physics & Computer Science, confers the academic degree of Doktor der Naturwissenschaften (Dr. rer. nat.). ²The degree may be awarded either as "Doktorin" or "Doktor". ³The abbreviated form remains unchanged.
- (2) According to Art. 97 para 1 BayHSchG, the doctorate serves as proof of an independent academic achievement, which must go considerably beyond the achievements required in § 4 para 1 number 1 for acceptance to the doctorate.
- (3) The doctoral work consists of an academic thesis (dissertation) written by the doctoral researcher and an oral examination (colloquium).
- (4) ¹The University of Bayreuth, by way of Faculty of Mathematics, Physics & Computer Science awards the honorary degree of "Doktor der Naturwissenschaften ehrenhalber" (Dr. rer. nat. h. c.) in accordance with § 18 as a rare distinction to individuals who have rendered outstanding scientific services. ²Para 3 sentences 2 and 3 apply *mutatis mutandis*.

§ 2

Examination authorization

¹In accordance with these doctoral regulations, authorised examiners (Art. 85 para 1 BayHIG) are full-time and part-time university lecturers (Art. 19 para 1 sentences 1 and 3 BayHIG), professors who have been released from their duties or have retired (Art. 19 para 1 sentence 4 BayHIG) as well as other authorised examiners of the Faculty of Mathematics, Physics & Computer Science in accordance with Section 4 of the University Examiner Ordinance (HSchPrüferV): ²Instructors from other faculties of the University of Bayreuth or from other German or foreign universities may also be appointed as examiners, provided that they fulfil the qualification requirements specified in Art. 85 para 1 BayHSchG in conjunction with § 4 HSchPrüferV. ³In addition, § 19 applies to doctoral degrees awarded jointly with universities of applied science/HAWs, and Section V applies in the context of binational doctorates.

§ 3

Doctoral committee and extended doctoral committee

- (1) The doctoral committee is responsible for the acceptance for doctoral research and conducting the doctoral examination processes, unless otherwise stipulated in the present doctoral regulations.
- (2) ¹The doctoral committee consists of the dean as chairperson and three professors according to Art. 19 para 1 sentence 1 BayHIG as well as one member of the other full-time academic staff who holds a doctorate and must be a university lecturer. ²They are elected by the faculty council for a period of two years.
- (3) ¹The doctoral committee shall constitute a quorum if all members have been duly invited and the majority of the members are present and entitled to vote. ²Its decisions are made on the basis of majority vote. ³Vote abstention, secret voting, and proxy voting are prohibited. ⁴If votes are equally divided among its members, the chair shall have the casting vote.
- (4) ¹The decisions of the doctoral committee are to be communicated to the applicant/doctoral researcher in writing by the dean. ²Notices of denial are to include a rationale and information on how to appeal.
- (5) Exclusion due to personal involvement is based on Art. 51 para 2 BayHIG, taking into account Art. 20 and Art. 21 BayVwVfG.
- (6) ¹The extended doctoral committee is made up of the members of the doctoral committee, all other university instructors according to Art. 19 para 1 sentences 1 and 3 BayHIG) the professors, professors who have been released from duty, and retired professors of the Faculty of Mathematics, Physics & Computer Science. ²The chairperson is the dean. ³It shall be convened within 14 days of a member's request. ⁴Paragraphs 3 and 5 apply *mutatis mutandis*.

Section II: The ordinary doctorate

§ 4

Application for acceptance for doctoral research

- (1) In order to be accepted for doctoral research, the applicant must fulfil the following requirements:
 1. He or she must have completed a subject-specific university degree; the standard qualification is the Diplom examination at a university, the master's examination at a university or a university of applied sciences/HAW or the first state examination for the teaching at Gymnasien. The doctoral committee can also recognize other degrees and degrees in related subjects as sufficient prerequisites for the doctorate and, if necessary, require additional components. It also decides on the recognition of foreign degrees. In these cases, the doctoral committee decides according to the principle of equivalence, taking into account Art. 86 BayHIG. Equivalence is determined by the equivalence agreements approved by the Standing Conference of the Ministers of Education and Cultural Affairs of the Länder and the German Rectors' Conference. The Central Office for Foreign Educational Credentials ("Zentralstelle für ausländisches Bildungswesen") may be contacted if there is doubt concerning equivalency. The requirement according to sentence 1 is considered to be fulfilled if the applicant has passed the doctoral aptitude assessment according to § 6.
 2. He/she must not have failed this or any other similar doctoral examination on the final attempt.
 3. The applicant must have concluded a supervisory agreement pursuant to § 7 with an instructor authorized to administer examinations in accordance with § 2 sentence 1; there is no entitlement to the conclusion of a supervisory agreement.
 4. He or she must not have shown himself or herself to be unworthy of holding a doctoral degree by his or her conduct.
- (2) ¹Admission to the doctoral examination process must be applied for in writing to the doctoral committee via the dean. ²The application must include the documents required to prove the admission requirements for examinations specified in para 1 and a declaration by the applicant that he or she has not yet been accepted for a doctorate in the same subject at another university or another institute at the University of Bayreuth that awards doctoral degrees. ³The application requires online registration as an applicant to the faculty.
- (3) The doctorate begins with the receipt of the written confirmation of acceptance for doctoral research sent by the faculty.

§ 5

Statistical requirements

- (1) ¹With the application for acceptance for doctoral studies, personal data of the doctoral researcher will be collected, automatically stored, and processed by the responsible faculty in accordance with the survey characteristics regulated in § 5 of the Higher Education Statistics Act (HStatG) for the purpose of fulfilling the legal duties as well as for the purpose of legislation and planning in the higher education sector in accordance with § 1 para 1 HStatG in the context of doctoral studies. ²In this respect, the applicant is obligated to cooperate and to provide personal data (Art. 7 para 2 sentence 4 BayHIG).
- (2) ¹Regular transmission or forwarding to the Bavarian State Office for Statistics is carried out with regard to the survey characteristics of the Higher Education Statistics Act of 2 November 1990 as well as to the university administration for the purpose of presenting the higher education statistics. ²The use and processing of personal data is subject to the requirements of Art. 7 BayHIG.

§ 6

Doctoral aptitude assessment

- (1) The prerequisites for admission for doctoral research are as follows,
 1. that the applicant does not fulfil the requirements specified in § 4 para 1 number 1 and has passed the final examination in a subject-related bachelor's programme at a university or a university of applied sciences/HAW or in a subject-related Diplom degree programme at a university of applied sciences/HAW with a final grade of "good" or better;
 2. that the applicant must not have already undergone a relevant doctoral examination or a comparable examination at another German higher education institution without success.
 3. that, following a counselling interview with the applicant, admission to the doctoral aptitude assessment is approved by a lecturer authorised to conduct examinations within the meaning of § 2.
- (2) ¹The application for admission to the doctoral aptitude assessment must be submitted in writing to the chairperson of the doctoral committee. ²The applicant must enclose the following with his/her application:
 1. proof of meeting the admission requirements specified in para 1 numbers 1 and 3;
 2. a statement as to whether he/she has already taken a doctoral aptitude assessment or a comparable examination at another higher education institution.

³In addition, the applicant may submit further documents that can be used to prove subject-related qualifications beyond the academic degrees.

- (3) ¹The doctoral committee decides on admission to the doctoral aptitude assessment. ²Admission is to be refused if
1. the admission requirements stipulated in para 1 are not fulfilled, or
 2. he or she has shown himself or herself to be unworthy of holding a doctoral degree by his or her conduct.
 3. the applicant does not submit the documents and declarations mentioned in para 2 sentence 2 in full.
- (4) In the doctoral aptitude assessment, the applicant must prove that he/she has the subject knowledge and scientific aptitude required for a doctorate.
- (5) ¹The doctoral aptitude assessment consists of an oral examination of approximately one hour before an examination board. ²The examination board shall be composed of three lecturers of the respective subject who are authorized to administer examinations. ³The chairperson of the doctoral committee shall appoint the examination board and designate an examiner as chairperson. ⁴He/she shall set the date of the examination and invite the members of the examination board and the applicant to the appointment with a notice period of one week. ⁵§ 14 para 7 applies *mutatis mutandis*.
- (6) ¹No grades are awarded in the doctoral aptitude assessment. ²The examination board will determine whether the applicant's performance meets the requirements according to para 4. ³If the performance does not meet these requirements, the doctoral aptitude assessment is failed. ⁴§ 9 para 3 sentence 2 applies *mutatis mutandis*.
- (7) ¹Any doctoral aptitude assessment that was failed on the first attempt can be repeated once. ²The application for admission to the re-examination must be submitted within one year after notification of the failure of the examination, unless the chairperson of the doctoral committee grants the applicant a period of grace due to special reasons for which he/she is not responsible.
- (8) The candidate shall receive a notification of the result of the doctoral aptitude assessment signed by the chairperson of the doctoral committee, which must be substantiated and include information on his/her right to appeal.
- (9) After successfully passing the aptitude assessment and fulfilling the requirements according to § 4 para 1 numbers 2 to 4 of the present regulations, the applicant receives written confirmation from the faculty of acceptance for doctoral research.

§ 7

Supervision and supervisory agreement

- (1) ¹The doctorate is supervised by an instructor authorized to administer examinations. ²The latter and the applicant shall set out the key points of the doctoral relationship in a written supervisory agreement. ³The supervisor will inform the doctoral committee if the doctorate is discontinued.
- (2) ¹If the supervisor leaves the group of people according to § 2 sentence 1, he or she may continue the supervision for up to two years after leaving the faculty if he or she remains eligible to administer examinations under the conditions of § 2. ²The doctoral committee may extend the period given in sentence 1 by a maximum of two years if there are important reasons for doing so.
- (3) If the supervisor of a doctorate can no longer continue supervising it, the doctoral committee will ensure that the doctorate continues to be supervised as far as possible.
- (4) ¹In the case of doctorates with universities of applied sciences /HAWs (§ 19), the doctorate is supervised equally by the participating teaching staff of the university of applied sciences/HAW and the university who are authorized to administer examinations, and the supervisory agreement is concluded jointly between them and the doctoral researcher. ²Para 1 and para 2 apply *mutatis mutandis*.
- (5) ¹The supervisor may terminate the supervisory relationship in writing if
 1. despite adequate supervision and a sufficiently long period of time, it becomes apparent that successful completion of the doctoral examination procedure within a reasonable period of time is no longer to be expected, or
 2. the basis of trust in the supervisory relationship has been destroyed and cooperation no longer appears possible.

²Before giving notice of termination, the supervisor must explain the reasons to the doctoral candidate and give him or her the opportunity to comment. ³If the doctoral candidate objects to the termination in writing, the doctoral committee shall decide on the validity of the termination. ⁴The doctoral candidate may terminate the supervisory relationship at any time until the date specified in § 10 sentence 1; withdrawal from the doctoral programme in accordance with § 10 shall be deemed termination. ⁵Upon termination, the supervisory relationship shall end and the supervision agreement shall be deemed terminated; the supervisor shall inform the doctoral committee thereof. ⁶Upon termination of the supervision agreement, acceptance for doctoral studies shall be deemed revoked unless another supervisory relationship is established. ⁷There shall be no entitlement to the establishment of a new supervisory relationship.

§ 8

Application for admission to the doctoral examination process

¹Admission to the doctoral examination process must be requested in writing via the dean to the doctoral committee and presupposes acceptance for doctoral research. ²The application must include:

1. five identical copies of the dissertation, which must meet the requirements according to § 11,
2. a German and an English abstract with title both in a printed form and in a form suitable for electronic delivery, the format of which must be agreed with the dean,
3. an affirmation in lieu of an oath that the doctoral researcher has written the thesis independently and has not used any sources or aids other than those indicated by him/her (cf. Art. 97 para 1 sentence 8 BayHIG) as well as a declaration that he/she has not yet submitted the thesis for the award of an academic degree and that he/she has not yet failed this or a similar doctoral examination on the final attempt,
4. a declaration that the assistance of commercial doctoral consultants or intermediaries or similar service providers has not been used in the past and will not be used in the future,
5. a curriculum vitae of the doctoral researcher providing information in particular about his/her educational background,
6. and an official certificate of good conduct. In the case of foreign doctoral researchers, a certificate recognized as equivalent by the University of Bayreuth must be submitted. This can be an extract from the criminal record from one's home country, a certificate of good conduct, or a comparable document. If the doctoral researcher is enrolled or is a public servant, the certificate of good conduct may be waived.
7. the electronic version of the dissertation as well as a declaration of consent by the doctoral researcher that the electronic version of the dissertation may be subjected to a separate review in compliance with his or her copyright and data protection,
8. a declaration of consent by the doctoral researcher that in the event of suspected scientific misconduct investigations may be carried out by internal university bodies of academic integrity;

§ 9

Decision on acceptance for doctoral research and admission to the doctoral examination process

- (1) Acceptance for doctoral studies is to be refused if the requirements specified in § 4 para 1 are not fulfilled.

- (2) Admission to the doctoral examination process is to be refused if
1. acceptance for doctoral studies has not been granted or
 2. the documents required under § 8 are incomplete, or
 3. the doctoral researcher has shown himself or herself to be unworthy of holding a doctoral degree by his or her conduct.
- (3) ¹The doctoral committee should make a decision concerning the requests of doctoral researcher within one month. ²The decisions on admission or refusal of admission to the doctorate and to the doctoral examination process shall be communicated to the doctoral researcher in accordance with § 3 para 4. ³In the doctoral examination process, the chairperson of the doctoral committee should ensure that the period between the application for admission to the doctoral examination process and the final colloquium does not exceed three months.

§ 10

Withdrawal

¹The doctoral candidate may withdraw from the doctoral programme at any time, provided that no application for admission to the doctoral examination procedure has yet been submitted. ²If the doctoral candidate withdraws from the doctoral programme at a point in time at which no decision has yet been made regarding the application for admission to the doctoral examination procedure, the dissertation shall be deemed not to have been submitted. ³If the doctoral candidate withdraws the application for admission after receiving a negative decision on the dissertation or after the oral examination has begun, the doctoral programme shall be deemed to have been terminated without success. ⁴The dean shall issue the doctoral candidate with a written notification of this decision, stating the reasons and informing them of their right to appeal. ⁵Applications in accordance with sentences 1 to 3 must be addressed to the dean. ⁶The dean shall inform the supervisor and give him or her the opportunity to comment on the doctoral candidate's withdrawal within a period of two weeks. ⁷Upon confirmation of the withdrawal by the dean after expiry of this period, the supervisory agreement shall be deemed terminated.

§ 11

Dissertation

- (1) ¹The dissertation must represent an independent academic achievement and contribute to solving scholarly questions. ²It should lead to new scientific knowledge. ³It must present the results achieved in an appropriate form.
- (2) ¹The dissertation must be signed and submitted in typescript; it must be bound, paginated, and provided with a table of contents and contain an abstract providing information on the problem and results. ²The literature used as well as any other aids are to be stated in full; passages taken verbatim or almost verbatim from the literature are to be identified. ³The information on the title page must correspond to the version available in the Dean's Office. ⁴The dissertation must also be submitted in electronic form, the format of which is to be agreed with the dean, to make it available for review by members of the faculty who are authorized to administer examinations. ⁵This review must respect copyright and data protection.
- (3) If an already published work is submitted as a dissertation, the corresponding number of copies of the printed work may be used instead of the typed copies.
- (4) ¹In the case of a cumulative dissertation, a detailed summary (extended abstract) must be submitted in addition to the submitted publications, which presents the connection between the submitted publications and the candidate's own contribution. ²The decision as to whether a cumulative dissertation is deemed suitable shall be taken by the doctoral committee.
- (5) The dissertation may be written in German or English.

§ 12

Assessment of the dissertation

- (1) ¹After admission to the doctoral examination process, the doctoral committee will immediately appoint at least two instructors authorized to administer examinations to assess the dissertation as reviewers; at least one of them must be a professor of the Faculty of Mathematics, Physics & Computer Science in accordance with Art. 19 para 1 sentence 1 BayHIG. ²As a rule, at least one of the examiners should not have co-authored any publications with the doctoral candidate. ³In the case of doctorates with universities of applied science/HAWs (§ 19), the two equally entitled supervisors of the dissertation of the university of applied sciences/HAW and the university are generally appointed as reviewers.

- (2) ¹Each reviewer will submit a written review of the dissertation within a reasonable period of time not exceeding two months and propose the acceptance and rejection of the dissertation. ²Each reviewer will evaluate the dissertation and assign a predicate according to the following scheme:

sehr gut [very good] = 1 = particularly commendable work;
gut [good] = 2 = above-average work;
befriedigend [satisfactory] = 3 = work that meets the average requirements;
unzulänglich [unsatisfactory] = 4 = work suffering from significant deficiencies, which is no longer usable overall.

³The use of the intermediate grades 1.5 and 2.5 is permitted.

⁴In special cases, the predicate

ausgezeichnet [excellent] = very outstanding work
may be awarded.

⁵When calculating the grade, this predicate is used with the value 0.

- (3) ¹The doctoral committee appoints an additional reviewer if the reviews differ by more than one grade. ²The same shall apply if a reviewer proposes the appointment of an additional reviewer. ³If the dissertation was assessed with the grade "excellent" or the dissertation was assessed by several supervisors, the doctoral committee shall appoint an additional reviewer; in the case of an assessment with the grade "excellent", the reviewer must be an external person.
- (4) The doctoral committee may also appoint additional reviewers on its own initiative at any time in the process, provided it deems it necessary to ensure proper assessment.
- (5) ¹The dean shall inform the members of the extended doctoral committee in an appropriate manner about the receipt of the reviews and the grades of the reviewers. ²The abstract of the dissertation and, on request, the electronic version of the dissertation will be sent with the notification; copyrights and data protection must be respected. ³The dean shall make the reviews available for inspection by the members extended doctoral committee in the Dean's Office for a period of two weeks. ⁴These persons may submit a written statement or request that the extended doctoral committee be convened. ⁵The extended doctoral committee may order further reviews. ⁶In the evaluation of the dissertation, the arithmetic mean of the individual grades is calculated and the second decimal place is truncated. ⁷If the dissertation is graded at least "satisfactory" (3.0), it is accepted, otherwise it is rejected. ⁸§ 3 para 4 applies *mutatis mutandis*.
- (6) ¹If the dissertation is rejected, the applicant may submit a new dissertation within one year of the announcement of rejection. ²Paragraphs 1 to 5 shall apply to the further procedure. ³If the doctoral researcher does not submit a new dissertation within the period specified in sentence 1 or if the new dissertation is also rejected, the doctoral examination process is terminated without success; § 9 para 3 sentence 2 applies *mutatis mutandis*.

- (7) ¹The extended doctoral committee may return a dissertation to the applicant for revision if it would have to be rejected. ²In this case, the applicant may also submit a new dissertation instead of the revision. ³The revised or new dissertation must be submitted to the doctoral committee within the period specified in para 6 sentence 1. ⁴A revised dissertation shall be assessed by the reviewers appointed for the original dissertation, insofar as they are still available; in all other respects, paragraphs 1 - 5 apply. ⁵If the doctoral researcher does not submit the revised or the new dissertation in due time or if the revised or the new dissertation is also rejected, the doctoral examination process is terminated without success. ⁶§ 9 para 3 sentence 2 applies *mutatis mutandis*.
- (8) ¹If the reviewers or the members of the extended doctoral committee identify deficiencies in the dissertation that do not justify rejection of the work, the doctoral researcher may be required to make appropriate corrections. ²The chair of examiners confirms upon submission the deposit copies that the corrections have been made.

§ 13

Board of examiners

- (1) ¹Within a reasonable period of time after acceptance of the dissertation in accordance with § 12 para 5 sentence 7 of the present regulations, a scientific colloquium (§ 14) will take place before the board of examiners. ²The board of examiners consists of:
1. a professor within the meaning of Art. 2 para 1 sentence 1 BayHIG of the Faculty of Mathematics, Physics & Computer Science, who may not be a reviewer, as chairperson;
 2. the reviewers;
- at least one other lecturer authorized to administer examinations within the meaning of § 2.
- ³If a reviewer within the meaning of sentence 2 number 2 is prevented from taking part in the rest of the process, and if this results in fewer than two reviewers taking part, a different instructor authorized to administer examinations within the meaning of § 2 will be appointed as a member of the board of examiners in his or her place.
- (2) The chairperson and the other members of the board of examiners are appointed by the dean on the recommendation of the doctoral committee immediately after admission to the doctoral examination process.

§ 14

Colloquium

- (1) ¹The colloquium is a collegiate individual examination. ²It is an academic debate (viva voce) in which the doctoral candidate proves that he or she has in-depth knowledge in the subject area from which the dissertation is taken.
- (2) ¹The dean will determine the date of the colloquium in consultation with the chair of examiners. ²The doctoral researcher and the members of the board of examiners are to be invited in writing at least fourteen days before the start of the colloquium. ³The doctoral committee may shorten this deadline in agreement with the doctoral researcher.
- (3) ¹The colloquium lasts at least sixty, but no more than one hundred and twenty minutes and is open to the all members of the University. ²It is held in German or English. ³The colloquium is divided into a presentation on the dissertation and a scientific discussion. ⁴The use of media should be appropriate. ⁵The colloquium is chaired by the chair of examiners. ⁶In addition to the members of the board of examiners, all lecturers authorized to administer examinations within the meaning of § 2 will be invited to the colloquium. ⁷The chairperson may allow questions from the lecturers present who are authorized to administer examinations; he or she will ensure that the members of the board of examiners have an appropriate share of the examination time.
- (4) ¹The grading of the colloquium takes place after a joint discussion between the examiners and is based on the grading scale according to § 12 para 2 sentences 2 to 5. ²In the evaluation of the colloquium, the arithmetic mean of the individual grades is calculated and the second decimal place is truncated. ³If a doctoral researcher does not achieve at least the grade *befriedigend* [satisfactory] (3.0) in the colloquium, the colloquium is failed.
- (5) ¹A record sheet in accordance with § 15 of the present regulations must be made of the course of the colloquium and the determination of the final grade of the doctorate. ²The record sheet must contain information on
 1. the date of the colloquium,
 2. the names of the chairperson and the other examiners,
 3. the name of the doctoral researcher,
 4. the topic of the examination,
 5. the grades of the dissertation and the colloquium as well as the final grade of the doctorate.³The record sheet is to be signed by the chairperson and the examiners.
- (6) ¹The doctoral researcher may repeat the failed colloquium once. ²The request for repetition must be submitted to the dean within one year after notification of having failed the colloquium. ³In

exceptional cases, the doctoral committee may permit a second repetition of the failed colloquium; the doctoral researcher must submit an application to this effect to the dean within six months of being notified of the repeated failure of the colloquium. ⁴The doctoral examination process will be terminated without success if the doctoral researcher does not submit a request for repetition within the deadlines specified in sentences 2 and 3 or if the doctoral committee does not permit a second repetition of the colloquium or if the doctoral researcher fails the colloquium even on the second repetition; § 9 para 3 sentence 2 shall apply *mutatis mutandis*.

- (7) ¹If the doctoral researcher does not appear for the colloquium or withdraws from the colloquium after it has begun, he or she must immediately notify the dean in writing of the reasons for the delay or withdrawal and provide credible evidence. ²In the case of illness of the doctoral researcher, the dean may require the submission of a doctor's note or official medical certificate. ³If the doctoral researcher is not responsible for the reasons for the failure or withdrawal, the dean will set a new date in accordance with para 2. ⁴If the doctoral researcher does not immediately report and substantiate the reasons for non-appearance or withdrawal in accordance with sentence 1 or is responsible for these reasons, the colloquium shall be deemed to have been failed; § 9 para 3 sentence 2 shall apply *mutatis mutandis*.

§ 15

Final grade of the doctorate

- (1) If the colloquium is passed, the board of examiners determines the final grade of the doctorate.
- (2) ¹The final grade of the doctorate is calculated as follows: First, the arithmetic means of the individual grades of the dissertation and the colloquium are calculated separately. ²The calculated value is truncated after the first decimal place. ³The double value for the dissertation and the single value for the colloquium are then added up and divided by three. ⁴The calculated total value is truncated after the first decimal place. ⁵The following grading scale applies to the final grade:
- 0 summa cum laude (with distinction)
0.1 to 1.5 magna cum laude (very good)
1.6 to 2.5 cum laude (good)
2.6 to 3.0 rite (satisfactory)
- (3) The final grade and the grade of the dissertation are to be announced orally to the doctoral candidate by the chair of examiners following the colloquium.
- (4) ¹The dean will issue a written interim notification to the doctoral researcher about the result of the passed examination. ²This interim notification does not entitle the holder to bear the doctoral title.

§ 16

Publication of the dissertation

- (1) ¹The doctoral researcher must make the dissertation available to the scientific public through reproduction and distribution. ²Theses already published in accordance with § 11 para 3 and 4 of the present regulations do not have to be published again.
- (2) ¹For the purpose of publication, the doctoral researcher must submit the prescribed number of copies free of charge to the dean within one year of receiving the interim notification of the result of the passed examination in accordance with the type of publication chosen by the doctoral researcher. ²The following publication types can be selected:
 1. 40 copies in book or photographic print for the purpose of distribution.
 2. six copies if the dissertation is published essentially unabridged in one or more scientific journals.
 3. six copies if a commercial publisher assumes the distribution via the book trade. The publication must have an ISBN or ISSN number and be marked as a dissertation on the back of the title page, stating the location of the dissertation.
 4. six copies in printed, bound form and an electronic version, the data format and type of data transfer of which must be agreed with the University Library of the University of Bayreuth. The publication must include an abstract in German and one in the English language. The doctoral researcher assures in writing that the electronic version corresponds to the accepted dissertation and grants the University Library of the University of Bayreuth and the DDB (Die Deutsche Bibliothek) the right to store this version, to publish it in data networks for an unlimited period of time and to make it accessible to other databases. The doctoral researcher is obligated to check the metadata and the network version of his/her dissertation for completeness, correctness, and readability after processing by the University Library. The submission of files that do not meet the required specifications with regard to file format and data transmission will not be deemed to constitute publication.
- (3) The doctoral researcher grants the University of Bayreuth the right in writing to publish his/her name, the topic of the dissertation, the abstract, the date of submission and the date of the colloquium and, in the event that he/she has chosen a type of publication in accordance with para 2 number 1, also the right to produce and distribute further copies of his/her dissertation.
- (4) The doctoral committee may extend the deadline for the delivery of the deposit copies at the request of the doctoral researcher.
- (5) ¹If the doctoral researcher misses the deadline for the delivery of the deposit copies through his or her own fault, all rights acquired through the successful completion of the examination process expire. ²§ 9 para 3 sentence 2 applies *mutatis mutandis*.

- (6) In the cases of para 2 numbers 2 and 3, the dean may consider the deadline for delivery to have been met if the publication of the dissertation and the delivery of the deposit copies appear to be sufficiently assured by a binding declaration from the journal or the publisher.

§ 17

Diploma and completion of the doctorate

- (1) If the requirements specified in § 16 are fulfilled, the faculty shall issue a diploma in the German language certifying the successful completion of the doctoral examination.
- (2) ¹The diploma confirms successful completion of the doctorate and contains
- the name of the university and the faculty,
 - the first and last names of the doctoral researcher, date and place of birth,
 - the degree conferred,
 - the title of the dissertation,
 - the date of the oral examination,
 - the final grade of the doctorate,
 - the name and signature of the President of the University of Bayreuth and the dean of the faculty,
 - the seal of the University of Bayreuth.
- ²The date of issue for the certificate is the date of the colloquium. ³In addition, an English translation of the certificate will be produced. ⁴In the case of doctorates awarded in cooperation with universities of applied sciences/HAWs (§ 19), the university of applied sciences/HAW involved must also be stated on the diploma.
- (3) ¹The certificate will be issued by the dean together with the English translation. ²The awarding of the doctoral degree marks the completion of doctoral studies; it entitles the doctoral researcher to use the doctoral degree.

Section III: Honorary doctorate

§ 18

Honorary doctorate

- (1) ¹The honorary doctorate procedure shall be initiated upon substantiated application by at least three professors of the Faculty of Mathematics, Physics & Computer Science in accordance with Art. 19 para 1 sentence 1 BayHIG. ²The request shall be addressed to the dean.

- (2) ¹The faculty council appoints at least two professors from the Faculty of Mathematics, Physics & Computer Science responsible for the subject in accordance with Art. 19 para 1 sentence 1 BayHIG to assess the scientific achievements of the person to be honoured. ²When the reviews are available, the dean forwards the request and the reviews to the members of the faculty council and to all instructor authorized to administer examinations. ³They may submit written comments within one month of receipt of the documents referred to in sentence 2.
- (3) ¹Decisions concerning whether to award an honorary doctorate will be made by the faculty council. ²The decision of the faculty council requires that a request be made by the extended doctoral committee. ³It takes into account the expert opinions, any statements pursuant to para 2 sentence 3 and the request submitted by the extended doctoral committee.
- (4) ¹The President and the dean confer the honorary degree by presenting the honoured person with a certificate. ²The certificate is to acknowledge the scientific achievements of the honoured person.

Section IV: Cooperation with universities of applied science (HAWs)

§ 19

Cooperation with universities of applied science (HAWs)

¹The Faculty of Mathematics, Physics & Computer Science enables the cooperative execution of doctorates with universities of applied science/HAWs and/or joint doctorates with Bavarian higher education institutions in accordance with the agreement between Bavarian higher education institutions dated 19 October 2015 within the framework of the provisions of the present doctoral regulations. ²The University of Bayreuth is in charge of cooperative doctorates and joint doctorates.

Section V: Binational doctorates

§ 20

General information

- (1) ¹The doctoral degree may also be awarded within the framework of joint supervision with a foreign academic institution (partner institution). ²This presupposes that
1. an agreement regarding the cross-border joint supervision of the doctorate has been concluded with the partner institution and approved by the doctoral committee,

2. the partner institution is authorized to award doctorates according to its national legislation and the academic degree to be awarded by it would have to be recognized in the area of application of the Higher Education Framework Act,
 3. the doctoral candidate fulfil the requirements for acceptance for the doctorate and for admission to the doctoral examination process both according to the present doctoral regulations (§§ 4, 8, and 9) and according to the corresponding regulations of the partner institution,
- (2) ¹The dissertation is jointly supervised by a supervisor in accordance with § 7 para 2 and a member of the partner institution who is authorized to administer examinations in accordance with the regulations there and can be submitted to the University of Bayreuth's Faculty of Mathematics, Physics & Computer Science or to the partner institution. ²The details of the joint supervision are to be set out in the agreement pursuant to para 1 sentence 2 number 1. ³A dissertation which has already been submitted to one of the participating educational institutions and accepted or rejected prior to the conclusion of an agreement in accordance with para 1 sentence 2 number 1 may not be the subject of a joint doctoral process.
- (3) The grading of the doctoral performance is carried out according to the regulations of the institution at which the dissertation is submitted; the other institution determines the equivalent grades according to its doctoral regulations.

§ 21

Doctoral examination process at the University of Bayreuth's Faculty of Mathematics, Physics & Computer Science

- (1) ¹If the dissertation is to be submitted to the University of Bayreuth's Faculty of Mathematics, Physics & Computer Science, § 11 and § 12 apply to the dissertation and its assessment. ²The supervisors of the dissertation according to § 20 para 2 sentence 1 should normally be appointed as reviewers.
- (2) ¹If the dissertation has been accepted in the process pursuant to § 12, it is forwarded to the partner institution for approval of the progress of the doctoral examination. ²If the partner institution gives its consent, the oral examination takes place in accordance with § 13 and § 14. ³If the supervisor of the dissertation from the partner institution is not a member of the board of examiners in accordance with § 13 para 1 sentence 2 number 2, his or her appointment as a member of the board of examiners or the substitute appointment of another member of the partner institution who is entitled to administer examinations in accordance with the provisions in effect there is to be provided for in the agreement in accordance with § 20 para 1 sentence 2 number 1.

- (3) ¹If the dissertation has been accepted by the University of Bayreuth's Faculty of Mathematics, Physics & Computer Science but the agreement to continue the examination has been refused by the partner institution, the joint process is terminated; the doctoral examination is continued according to the provisions of the present doctoral regulations. ²Sentence 1 applies *mutatis mutandis* if the oral examination is assessed as failed by the partner institution.
- (4) Publication of the dissertation and the delivery of the deposit copies shall be governed by § 16 and the supplementary agreements made in accordance with § 20 para 1 sentence 2 number 1.

§ 22

Examination process at the partner institution

- (1) ¹If the dissertation is to be submitted at the partner institution, the doctoral regulations of the partner institution apply to the examination procedure. ²The agreement in accordance with § 20 para 1 sentence 2 number 1 shall provide for the appointment of the supervisor in accordance with § 20 para 2 sentence 1 from the Faculty of Mathematics, Physics & Computer Science at the University of Bayreuth or, if this supervisor cannot be called upon, of another lecturer from the Faculty of Mathematics, Physics & Computer Science at the University of Bayreuth who is authorized to administer examinations in accordance with the present doctoral regulations, as a reviewer for the assessment of the dissertation.
- (2) ¹If the dissertation has been accepted by the partner institution pursuant to § 12, it is forwarded to University of Bayreuth's Faculty of Mathematics, Physics & Computer Science for approval of the progress of the examination. ²§ 12 para 5 sentences 3 to 8 apply *mutatis mutandis*. ³If the Faculty of Mathematics, Physics & Computer Science at the University of Bayreuth gives its consent, the oral examination takes place at the partner institution in accordance with the latter's regulations. ⁴In the agreement pursuant to § 20 para 1 sentence 2 number 1, it must be stipulated that in this case the supervisor pursuant to § 20 para 2 sentence 1 from the University of Bayreuth's Faculty of Mathematics, Physics & Computer Science or, if this is not possible, another instructor from the Faculty of Mathematics, Physics & Computer Science who is authorized to administer examinations pursuant to the present doctoral regulations must be a member of the committee conducting the oral examination.
- (3) ¹If the dissertation is accepted at the partner institution but the University of Bayreuth's Faculty of Mathematics, Physics & Computer Science refuses to approve the continuation of the examination, the joint process is terminated. ²The doctoral examination can be continued according to the regulations of the partner institution. ³Sentences 1 and 2 apply *mutatis mutandis* if the oral examination is assessed as failed by the University of Bayreuth's Faculty of Mathematics, Physics & Computer Science.

- (4) ¹For the publication of the dissertation and the delivery of the deposit copies, the regulations applicable to the partner institution apply. ²The agreement in accordance with § 20 para 1 sentence 2 number 1 also specifies how many copies are to be made available to the University of Bayreuth's Faculty of Mathematics, Physics & Computer Science; alternatively, publication of the dissertation may be approved analogously to § 16 para 2 numbers 2 to 4. ³In any case, one copy of the dissertation remains in the examination files. ⁴The issuing of the diploma for the doctorate to be provided in accordance with § 23 shall be made dependent on the fulfilment of the delivery obligations.

§ 23

Joint diploma

- (1) ¹After the successful completion of a joint doctoral examination process, the University of Bayreuth's Faculty of Mathematics, Physics & Computer Science and the partner institution will issue a joint diploma on the award of the doctoral degree, indicating that the doctoral degree was awarded under joint supervision. ²The diploma bears the signatures and seals required under the provisions of the present doctoral regulations and the regulations of the partner institution.
- (2) Instead of a joint diploma, individual diplomas of the Faculty of Mathematics, Physics & Computer Science and of the partner institution can be used, which clearly show that both diplomas together constitute a joint doctoral diploma.
- (3) The joint doctoral diploma shows that the bearer of the doctoral title is entitled to use the doctoral degree in Germany in accordance with § 1 para 1 and the doctoral degree awarded there in the foreign country.
- (4) ¹Further details on the form of the diploma are regulated by the agreement pursuant to § 20 para 1 sentence 2 number 1. ²The grade equivalence can also be taken from it. ³On the joint doctoral diploma, the equivalent foreign grade should be listed with the corresponding marking.

Section VI: Other provisions, entry into force and transitional provisions

§ 24

Invalidating the doctorate

- (1) If it becomes apparent before the diploma is issued that the doctoral researcher has cheated in the doctoral examination, the doctoral committee will declare all previously acquired qualifications invalid and discontinue the process.

- (2) ¹If the deception or other illegality only becomes known after the diploma has been issued, the doctoral examination can be subsequently declared failed by doctoral committee. ²Withdrawal of the doctoral degree is governed by the statutory provisions (Art. 48 BayVwVfG). ³The person concerned must be given the opportunity to comment before the decision is made (Art. 28 BayVwVfG). ⁴With regard to the definiteness, form, and justification of the decision, the provisions on the conclusion of administrative acts (Art. 35 et seq. BayVwVfG) are to be observed.

- (3) ¹In the case of suspected academic misconduct, the doctoral committee will only make a decision once the Committee for Research Integrity has submitted its report. ²If the doctoral committee has already decided in advance in special cases, the further report by the Committee for Research Integrity will remain unaffected. ³A declared renunciation of the doctoral degree shall have no influence on the initiation and progress of the process pursuant to sentences 1 and 2.

- (4) In the event of failure of the doctoral examination in accordance with para 2 sentence 1, the doctoral diploma shall be withdrawn.

- (5) In all other respects, the withdrawal of the doctoral degree is governed by Art. 101 BayHIG in conjunction with the relevant provisions of the BayVwVfG.

§ 25

Access to examination documents

¹After receipt of the notification in accordance with § 15 para 4 or after unsuccessful completion of the doctoral examination process, the doctoral researcher may inspect the documents relating to the doctorate. ²The time and place for granting access to the documents is determined by the dean. ³The application must be submitted to the dean of the Faculty of Mathematics, Physics & Computer Science within one month of receipt of the interim notification in accordance with § 15 para 4 or the unsuccessful completion of the doctoral process. ⁴The procedure for inspection in these and other cases in which a request for access is made is governed by Art. 29 ff. BayVwVfG.

§ 26

Consideration of protective provisions

- (1) ¹The utilization of protection periods of the Maternity Protection Act (MuSchG) shall be guaranteed. ²Upon request, the claiming of parental leave in accordance with the Federal Parental Allowance and Parental Leave Act (Bundeselterngeld- und Elternzeitgesetz), as well as periods for the care of a close relative within the meaning of § 7 para 3 of the Nursing Care Act who is in need of care within the meaning of § 14 and § 15 of the Eleventh Book of the Social Code (Sozialgesetzbuch), shall be guaranteed. ³The appropriate evidence must be furnished; any changes in status are to be reported immediately.

- (2) ¹Upon request, periods during which the doctoral studies cannot be pursued or can only be pursued to a very limited extent for reasons for which the doctoral researcher is not responsible will not be counted towards deadlines. ²Corresponding evidence must be furnished; medical certificates must be presented in the case of illness. ³Any changes in status are to be reported immediately.

§ 27

Consideration of special needs of by people with disabilities or chronic illness and in special life circumstances

- (1) ¹For the sake of ensuring equal opportunities, the particular needs of applicants/ doctoral researchers with disabilities or chronic illnesses are to be appropriately accommodated under the terms of Bavarian law (BayBGG). ²The doctoral committee shall determine, upon written request by the applicant/doctoral researcher, according to the severity of the proven examination disability or chronic illness, the form examiners in consultation the examination shall be carried out or shall grant an extension of working time or other reasonable accommodations. ³Proof of the examination disability or chronic illness must be furnished in the form of a medical certificate stating that, due to a long-term or permanent disability or chronic illness, the examination cannot be taken in whole or in part in the intended form. ⁴The request must be included with the application for acceptance for doctoral research. ⁵If the request is submitted later, it shall only be valid for subsequent assessment components.
- (2) ¹Applicants/doctoral candidates in special life circumstances may apply to the doctoral committee reasonable accommodations in accordance with paragraph 1. ²The doctoral committee shall decide on the existence of a special life circumstances and the extent of reasonable accommodations.

§ 28

Effective date, transitional provisions

- (1) ¹The present doctoral regulations shall enter into force on 21 September 2017; at the same time, the doctoral regulations for the Faculty of Mathematics and Physics at the University of Bayreuth dated 1 September 2009 (AB UBT 2009/062) in the version dated 5 July 2011 (AB UBT 2011/032) shall cease to be in force. ²Doctorates for which the dissertation was submitted before these regulations came into force will be completed in accordance with the regulations valid at the time of submission.*)

(2) ¹For applicants who have already received a confirmation of supervision before these doctoral regulations come into force, the provisions of the present regulations shall apply with the following provisos:

1. The supervision commitment replaces the supervisory agreement to be concluded in accordance with § 4 para 1 number 3 in conjunction with § 7 of the present regulations.
2. These applicants must provide evidence of the requirements in accordance with § 4 para 1 numbers 1, 2, 4 with the application for admission to the doctoral examination process in accordance with § 8,

²The doctoral committee may decide on this in advance on the basis of an application submitted by the candidate to the dean. ³In all other respects, § 9 para 1 and para 2 number 2 shall apply *mutatis mutandis*.

*) The set of amendments dated 5 June 2025 contains the following provisions with regard to the effective date:

The present regulations shall take effect on 6 June 2025.