



**Examination and Study Regulations
of Ludwig-Maximilians-Universität München for the
Master's degree program in Astrophysics (2023)**

Dated February 8, 2024

Bitte beachten Sie, dass es sich bei dieser Fassung lediglich um eine Hilfestellung für Studieninteressierte und Studierende mit keinen oder nur geringen Deutschkenntnissen handelt.

Rechtsverbindlich ist allein die amtlich veröffentlichte Fassung der Prüfungs- und Studienordnung in deutscher Sprache.

Please note that this version is solely intended as a guide for prospective students and students with little or no knowledge of German.

Only the officially published version of the examination and study regulations in German is legally binding.

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I. General information

Section 1

Object of the Degree Program and Purpose of the Master's Examination

(1) ¹The Master's degree course in Astrophysics is a consecutive, strongly research-oriented programme whose fundamental goal is to provide an overview of the deeper relationships within the field of astrophysics in the context of physics. ²Students learn to familiarise themselves with complex problems and solve them using scientific methods. ³Based on in-depth fundamental knowledge, the primary study objectives focus on imparting specialist knowledge oriented towards current research questions, with research methods, strategic planning of procedures, critical evaluation of scientific findings, independent and responsible action, and key professional qualifications being of central importance. ⁴Students acquire the ability to think astrophysically and to proceed physically and methodically in theory and practice. ⁵Graduates have knowledge at the highest international level in a modern specialised field of physics, which they can also apply to other research topics in their professional work thanks to the broad scope of the programme. ⁶The Master's degree in Astrophysics thus qualifies graduates to work independently as astrophysicists, particularly at university astronomy institutes or non-university astrophysics research institutes and centres, and also as physicists in research and teaching, in manufacturing and research-based industry and the service sector, as well as in self-employment. ⁷The main areas of work are in astrophysical and physical basic research and in application-oriented research and development (e.g. development of optical instruments and detectors, development of methods for processing and analysing large amounts of data, research and development for space and satellite missions) in scientific, technical, information processing, medical and mathematical-statistical fields, as well as in modern administrative and service companies or corresponding government organisations.

(2) ¹The Master's examination, which is to be taken during the course of study (Section 9, paragraph 1), represents the final professional qualification leading to the conclusion of the Master's degree program in Astrophysics. ²The Master's examination determines whether the student has an overview of the contents of the subject (and their interrelationships) and can critically assess them, has the ability to apply its relevant scientific methods and results, and has acquired the in-depth knowledge necessary for transitioning to the professional field.

(3) ¹Key qualifications are also taught as part of the courses of this Master's degree program. ²Key qualifications include, in particular:

1. The ability to research, evaluate, consolidate, and structure knowledge and information,
2. General overview of major fields of knowledge in the respective subject,
3. Connected thinking,
4. Organizational skills and transferability,
5. Information expertise and media literacy,
6. Learning and presentation techniques,
7. Teaching and communication proficiency,
8. Teamwork and communication skills, also from a gender-specific point of view,
9. Language skills, and
10. Computer knowledge and skills.

(4) ¹The courses and the corresponding module examinations and submodule examinations are carried out in English, without prejudice to Section 14, paragraph 1, sentence 2. ²Certain courses and the corresponding module examinations and submodule examinations are carried out exclusively in German.

Section 2 Academic Degree

The Faculty of Physics awards the academic degree "Master of Science" (M.Sc.) to students who successfully complete this Master's degree program.

Section 3 Admission Requirements

(1) ¹To enroll in this Master's degree program, applicants must provide proof of a professionally qualifying university degree with at least 180 ECTS points, or an equivalent qualification from a university in Germany or abroad in the subject area of Physics, or Astrophysics, or another mathematical or scientific discipline. ²Further admission requirements may be specified in a separate statute of Ludwig-Maximilians-Universität München.

(2) Whether the admission requirements outlined in paragraph 1 are satisfied will be determined in consultation with the responsible examination board during the enrollment process.

(3) If the requirements of paragraph 1 are not met, participation in module examinations and submodule examinations will be deemed incomplete, unless subsequent proof of meeting the requirements of paragraph 1 is explicitly permitted and submitted within the deadline.

Section 4 Central Student Advisory Service and Academic Counseling (at Faculty Level)

(1) ¹The Central Student Advisory Service of Ludwig-Maximilians-Universität München provides information and advice, in particular in regard to cross-disciplinary problems.

²Students should consult it in particular before beginning their studies, when planning to change degree programs, and for all questions relating to restricted admission.

(2) ¹Academic counseling (at the faculty level) is conducted by the responsible academic advisor under the purview of the faculty. ²The advice specifically addresses issues related to the content and scheduling of study planning. ³Information on questions related to examinations or the recognition and/or credit transfer of academic achievements and examination achievements is provided by the members of the Examination Board and/or the Examination Office.

II. Duration, Structure, and Course of Study

Section 5 Beginning of Studies, Standard Length of Study, and Semester Hours per Week

(1) Students may commence this Master's degree program in the winter or the summer semester.

(2) ¹The standard length of study is four semesters, including the time required to

complete the Master's thesis. ²In total, up to 60 semester hours per week (SHW) are required.

Section 6 ECTS Points

(1) ¹A total of 120 points according to the European Credit Transfer System (ECTS points) must be acquired as part of this Master's degree program. ²ECTS points are a measure to quantify the student's total academic workload. ³They include both the direct instruction in all courses and forms of teaching specified in Section 8, paragraph 1, sentence 2 as well as the time spent preparing and reviewing course material (in-person study and independent study) and the effort involved in preparing for examinations and for completed examination achievements. ⁴One ECTS point corresponds to an academic workload of 30 hours, meaning that the total academic workload within the standard length of study (Section 5, paragraph, 2, sentence 1) is 900 hours per semester and equivalent to 30 ECTS points.

(2) ¹In every semester, the student must acquire the ECTS points outlined in Annex 2/column 18. ²ECTS points are only awarded for passed modules (Section 10, paragraph 4, sentence 2).

Section 7 Modular Approach and Modules

(1) ¹The course of study in this Master's degree program is modular in structure and is regulated in a compulsory manner in Annex 2. ²The empty table cells in Annex 2 have no regulatory content.

(2) ¹The Master's degree program consists of compulsory modules and compulsory elective modules. ²Compulsory modules must be completed without exception; the student can choose from compulsory elective modules. ³The number of compulsory elective modules selected must not exceed the required amount. ⁴A compulsory elective module is selected at the latest by taking a corresponding module examination or submodule examination; the selection is irreversible.

(3) A module is a combination of thematically and chronologically coordinated courses as well as a module examination or multiple submodule examinations, which are assessed according to the time required for successful participation with a number of ECTS points determined in accordance with Section 6, paragraph 1.

(4) ¹In accordance with Annex 2, a module usually spans one, at the most two semesters. ²In accordance with Annex 2/column 18, each module is worth a multiple of three ECTS points.

(5) ¹In order to participate in modules, requirements for admission need to be fulfilled. ²Further details can be found in Annex 2/column 2.

(6) Annex 2 contains:

1. The modules,
2. Their assignment to one or more semesters,
3. Their requirements for admission (Annex 2/column 2),
4. The type of module (compulsory or compulsory elective module – Annex 2/column 3); in the case of compulsory elective modules, also the details of the selection modalities,

5. The module abbreviations (Annex 2/column 4),
6. The module names (Annex 2/column 5),
7. Module availability (every semester or annually) (Annex 2/column 6),
8. ECTS points to be awarded after passing the module (Annex 2/column 18).

Section 8 Courses

(1) ¹The objectives and content of the degree program as well as key qualifications (Section 1, paragraph 3) are taught in the courses and forms of teaching specified in Annex 2/columns 8 and 9. ²The following courses and forms of teaching in particular may be specified in Annex 2/columns 8 and 9.

1. Lectures,
2. Exercises,
3. Seminars,
4. Colloquia,
5. Tutorials,
6. Labs.

(2) All courses are assigned to modules.

(3) ¹The Master's degree program consists exclusively of compulsory courses. ²These must be completed without exception.

(5) Annex 2 contains:

1. The courses,
2. The type of courses (Annex 2/column 3),
3. Course availability (every semester or annually) (Annex 2/column 6),
4. Their assignment to a module,
5. Their assignment to one or more semesters,
6. Their requirements for admission (Annex 2/column 7),
7. Course abbreviations (Annex 2/column 4),
8. Names of the courses (Annex 2/column 8),
9. Teaching forms of the courses (Annex 2/column 9),
10. Semester hours per week (Annex 2/column 10),
11. ECTS points mathematically allocated to the courses (Annex 2/column 18).

III. Master's Examination

1. Module Examinations and Submodule Examinations

Section 9

Module Examinations and Submodule Examinations as Components of the Master's Examination

(1) The Master's examination consists exclusively of module examinations.

(2) ¹In accordance with Annex 2, each module is concluded with a module examination. ²If a module examination or submodule examination is passed, the ECTS points assigned to

it are recorded in the student's personal account (Section 12). ³If multiple course instructors organize a module examination without the examinations being part of a module, the regulations for submodule examinations apply accordingly.

(3) In the module examination, or in the total of the submodule examinations for the respective module, the student should demonstrate that they have acquired the knowledge and skills taught in the course assigned to the module in accordance with Annex 2/columns 7 to 10, or in the courses assigned to the module in accordance with Annex 2/columns 7 to 10.

(4) ¹Annex 2 contains:

1. The module examinations and submodule examinations,
2. Their assignment to a module and, if applicable, a course,
3. Their assignment to a semester (scheduled date or recommendation – Annex 2/column 1),
4. Their requirements for admission (Annex 2/column 11),
5. The type of examination (Annex 2/column 12),
6. The form of examination (Annex 2/column 13),
7. The duration of the examination or the scope of the examination (Annex 2/column 14),
8. The type of evaluation (grading or, respectively, "pass" or "fail" – Annex 2/column 15),
9. The grade weighting (Annex 2/column 16),
10. The repeatability (Annex 2/column 17).

²If Annex 2/columns 13 and 14 specify several types of examination with an associated examination duration or examination scope, the course instructor shall determine which of the specified options is to be chosen and shall announce this at the beginning of the course.

³This announcement is to be documented and archived by the course instructor.

Section 10

Evaluation of the Module Examinations and Submodule Examinations

(1) Module examinations and submodule examinations are evaluated or graded as "passed" or "failed."

(2) ¹The grade awarded for a module examination or submodule examination is determined by the respective examiner. ²The following grades are to be used to evaluate the module examinations and submodule examinations:

Grade 1	= "very good"	= Outstanding achievement;
Grade 2	= "good"	= Achievement that significantly exceeds the requirements;
Grade 3	= "satisfactory"	= Achievement that meets average requirements;
Grade 4	= "sufficient"	= Achievement that still meets the requirements despite its shortcomings;
Grade 5	= "insufficient"	= Achievement that no longer meets the requirements due to significant shortcomings.

³To provide a more detailed assessment of the module examinations and submodule examinations, the grades may be increased or decreased by 0.3 to intermediate values; however, the grades 0.7; 4.3; 4.7 and 5.3 are not used. ⁴If a module examination or submodule examination is graded by several examiners or if a module examination or submodule examination consists of multiple partial credits (Section 11, paragraph 1, sentence 3), the overall grade of the module examination or submodule examination is calculated from the arithmetic mean of the individual grades. ⁵Only the first two digits after

the decimal point are taken into account. ⁶The grade designation according to sentence 4 is:

For an average up to and including 1.50 =	"very good";
For an average ranging from 1.51 to 2.50=	"good";
For an average ranging from 2.51 to 3.50=	"satisfactory";
For an average ranging from 3.51 to 4.00=	"sufficient".

(3) ¹The module grade

1. For a module examination or if there is only one graded submodule examination (Section 9, paragraph 2) is calculated based on paragraph 2
2. For submodule examinations (Section 9, paragraph 2) is calculated as the arithmetic mean of the individual examinations, graded in accordance with Annex 2/column 15 and weighted in accordance with Annex 2/column 16 in the submodule examinations belonging to the respective module.

²Unless otherwise specified in Annex 2/column 16, the ECTS points allocated to each submodule examination in Annex 2/column 18 shall be included in the arithmetic mean to be calculated in accordance with sentence 1, no. 2. ³Paragraph 2, sentences 5 and 6 apply accordingly.

(4) ¹If submodule examinations for more courses are successfully completed within a module than are required to pass the module, only the ECTS points required to pass the module are taken into account when calculating the module grade. ²To pass a module, students must pass the module examination assigned to the compulsory courses or all submodule examinations in the manner specified in Annex 2.

Section 11

Passing, Failing, and Repeating the Module Examinations and Submodule Examinations

(1) ¹A module examination or submodule examination is passed if it is graded:

1. with "passed" or
2. with at least "sufficient" (4.0).

²Subject to Section 31, a module examination or submodule examination should be passed, at the latest, by the end of the semester specified in Annex 2/column 1 (scheduled date); details provided in brackets in Annex 2/column 1 are only recommendations. ³A module examination or submodule examination is passed if, subject to Section 31, all required partial credits are successfully completed, at the latest, by the end of the semester specified in sentence 2.

(2) ¹If Annex 2/column 1 provides details in brackets for a module examination or submodule examination, the end of the fourth semester shall be deemed as the scheduled date. ²This module examination or submodule examination is passed if, subject to Section 31, it is successfully completed, at the latest, by the end of the fifth semester.

(3) A module examination or submodule examination is also passed if the requirements of paragraphs 1 and 2 are not fulfilled within the period specified therein, but are fulfilled within the framework of a repetition permitted under these Examination and Study Regulations.

(4) ¹A module examination or submodule examination has been failed if it was taken in whole or in part, but was not passed. ²A module examination or submodule examination has

been definitively failed if it was taken in whole or in part but not passed, and there is no longer an opportunity to retake it.

(5) ¹A module examination or submodule examination is deemed, subject to Section 31,

1. as having been taken and failed if, for reasons for which the student is responsible, it has not been successfully completed by the end of the semester specified in paragraph 1 sentence 2, and
2. as having been definitively failed if, for reasons for which the student is responsible, it has not been successfully completed by the end of the first semester following expiry of the scheduled date.

²If Annex 2/column 1 contains details provided in brackets for a module examination or submodule examination, this module examination or submodule examination is deemed, subject to Section 31,

1. as have been taken and failed if, for reasons for which the student is responsible, it has not been successfully completed by the end of the fifth semester, and
2. as have been definitively failed if, for reasons for which the student is responsible, it has not been successfully completed by the end of the sixth semester.

³In the event of reasons which justify that one of the deadlines in sentence 1 and/or 2 is exceeded, the student must report and substantiate these reasons to the Examination Office in writing as soon as they arise. ⁴A medical certificate must be submitted in the event of illness; the submission of a certificate of incapacity for work is insufficient. ⁵The Examination Office may, in individual cases or in general, require the submission of a medical certificate from a public health officer or a certificate from a physician chosen at the discretion of the Examination Office. ⁶If the reason is accepted, a new date shall be scheduled. ⁷In the case of module examinations and submodule examinations which can be split up into parts, already existing examination results are to be credited.

(6) A failed module examination or submodule examination, with the exception of the Master's thesis (Section 14), can be repeated as often as desired, provided that "Unlimited" is specified as the repeatability allowance in Annex 2/column 17.

(7) A failed module examination or submodule examination can only be repeated once on the next possible regular date if "Once, next date" is specified as the repeatability allowance in Annex 2/column 17.

(8) Students who have failed a module examination or submodule examination must be able to repeat the course or courses assigned to this module examination or submodule examination before their last attempt to pass this module examination or submodule examination.

(9) It is not possible to repeat a module examination or submodule examination that has already been passed in order to improve the grade.

(10) The grade obtained in a module examination or submodule examination and the associated ECTS points may only be counted once in this Master's degree program within the meaning of Section 6, paragraph 1, sentence 1.

Section 12 Transcripts

¹A personal account is set up by the Examination Office for students enrolled in this Master's

degree program, in which

1. All passed module examinations and submodule examinations (Section 11, paragraphs 1 to 3) are recorded with the grade "passed" or the grade awarded and the ECTS points allocated, and
2. All failed module examinations and submodule examinations (Section 11, paragraphs 4 and 5) are recorded with the grade "failed" or with the grade awarded.

²At the start of each subsequent semester, students shall receive a personal transcript as defined in sentence 1 as a notification with information on legal recourse.

2. Special Module Examinations and Submodule Examinations

Section 13 (not applicable)

Section 14 Master's Thesis

(1) ¹The Master's thesis is a module examination. ²Notwithstanding Section 1 paragraph 4 sentence 1, it may also be written in German.

(2) The Master's thesis should demonstrate that the student is capable of independently working on a problem from their field of study using scientific methods within a specified time limit (paragraph 7).

(3) ¹The Master's thesis is supervised by a person appointed as the first examiner in accordance with Section 24, paragraph 3, no. 3 (supervisor). ²The approval of the Chair of the Examination Board is required if the Master's thesis is to be completed at an institution outside Ludwig-Maximilians-Universität München.

(4) ¹The procedure for assigning topics and verifying whether students meet the admission requirements will be announced by the Examination Office, as is customary, in the first two weeks after the start of the students' second-to-last semester; it is sufficient for the Examination Office to issue an announcement solely online. ²The topic of the Master's thesis and the date it is issued are put on record by the Examination Office. ³The student may express preferences for topics; the supervisor is not bound by these preferences. ⁴The topic can only be returned once and only within two weeks of being issued. ⁵The order pursuant to Section 28, paragraph 2, sentence 3 is deemed to have been issued; Section 28, paragraph 3 applies accordingly.

(5) ¹The supervisor must:

1. Assign the topic of the Master's thesis in a timely manner and
2. Evaluate the Master's thesis in a timely manner,

such that the Examination Office receives the evaluation no later than two weeks before the student's last semester ends. ²Sentence 1, no. 2 applies accordingly for a second examiner.

(6) ¹Students who have not been assigned a topic for a Master's thesis in a timely manner as set out in paragraph 4, sentence 1 must report immediately to the Chair of the Examination Board. ²The Chair of the Examination Board must ensure that each student is

assigned a topic for a Master's thesis.

(7) ¹The time allotted to complete the master's thesis is 23 weeks. ²30 ECTS points are awarded for the Master's thesis.

(8) ¹Two copies of the Master's thesis must be submitted to the Examination Office by the deadline; a record of the submission date must be made. ²Upon submission, the candidate must confirm in writing that they have written the Master's thesis independently and have not used any sources or aids other than those specified. ³The Examination Board may, in general or in individual cases, additionally require that the Master's thesis be submitted in an electronic format and may specify technical requirements to be fulfilled.

(9) ¹The Master's thesis shall be evaluated by the Master's thesis supervisor (paragraph 3, sentence 1). ²Master's theses that are to be evaluated as "failed" shall be evaluated by a second examiner (Section 24, paragraph 3, no. 3).

(10) ¹The Master's thesis may be repeated once at the next possible regular date if the grade is lower than "sufficient" (4.0). ²The Master's thesis topic may, however, only be returned within the period set out in paragraph 4, sentence 4, if the student did not exercise this option upon completing their initial thesis.

Section 15 (not applicable)

3. Forms of Examination

Section 16 Oral Module Examinations and Submodule Examinations

(1) ¹In oral module examinations and submodule examinations, the student should demonstrate that they are able to grasp the contents and context of the field of examination and are able to contextualize specific questions in these contents and contexts. ²Moreover, it should be determined whether the student possesses the foundational knowledge that is appropriate for the level of a Master's degree program.

(2) The duration of the oral module examinations or submodule examinations for each examinee is regulated in Annex 2/column 14.

(3) ¹The main subjects and results of the oral module examinations and submodule examinations must be documented in the form of a record (protocol). ²The result shall be disclosed to the student after the oral module examination or submodule examination.

Section 17 Written Exams and Other Written Supervised Assignments

(1) ¹In the written exams and other written supervised assignments, the student should demonstrate that they can solve problems and address topics in a limited amount of time and with limited means, relying on the required foundational knowledge and by employing the standard methods of their field. ²The student may be provided with a selection of topics to choose from; the student does not have an entitlement to this, however.

(2) The duration of written exams and other written supervised assignments is regulated in Annex 2/column 14.

(3) ¹Written module examinations and submodule examinations may also be taken in whole or in part in a manner that requires the examinee to identify what they believe to be the correct answer from the suggested answers provided with the exam questions (multiple-choice procedure). ²The examination tasks must enable reliable examination results. ³All examinees must be given the same examination tasks. ⁴When designing or creating the examination tasks, it is necessary to determine which suggested answers are taken to be the correct ones. ⁵The examination tasks must be reviewed by the task creators before the examination result is determined to identify whether they are flawed in terms of the requirements stated in sentence 2. ⁶If this review reveals that individual examination tasks are flawed, these will not be taken into account during the determination of the examination result. ⁷The number of examination tasks for the individual module examinations and submodule examinations is reduced accordingly. ⁸The evaluation of the written module examination or submodule examination in accordance with paragraph 4, sentence 1 shall be based on the reduced number of examination tasks. ⁹The reduction in the number of examination tasks may not be to the examinee's disadvantage.

(4) ¹Written module examinations and submodule examinations in accordance with paragraph 3, sentence 1, which consist of single-choice tasks (exactly one of a total of n suggested answers is correct—"1 out of n"), are deemed to have been passed if

1. The examinee answered at least 60 percent of the presented examination questions correctly, or
2. The examinee correctly answered at least 50 percent of the examination questions presented, and the number of examination questions answered correctly by the examinee is not more than 15 percent lower than the average examination achievement of examinees who took the examination for the first time.

²The Dean of Studies must be notified if sentence 1, no. 2 is applied. ³If the examinee correctly answered the minimum number of examination questions required to pass the examination in accordance with sentence 1, the grade shall be assigned as:

1. "Very good" if they answered correctly at least 75 percent,
2. "Good" if they answered correctly at least 50, but less than 75 percent,
3. "Satisfactory" if they answered correctly at least 25 but less than 50 percent,
4. "Sufficient" if they answered correctly none or less than 25 percent

of the additional examination questions presented correctly.

(5) ¹For examinations carried out in accordance with paragraph 3, sentence 1, consisting of multiple-choice tasks (an unknown number x, which is between zero and n, of a total of n suggested answers is correct – "x out of n"), paragraph 4 applies, under the proviso that instead of the ratio of the number of examination questions answered correctly to the total number of examination questions, the ratio of the total number of raw points achieved by the examinee to the maximally achievable performance shall be decisive. ²For each multiple-choice task, an evaluation score is determined which corresponds to the number of suggested answers (n) and which can be multiplied by a weighting factor for the individual multiple-choice task. ³The examinee shall receive a basic score for a multiple-choice task, which corresponds to the evaluation score if the suggested answers selected by the examinee completely agree with the suggested answers recognized as correct. ⁴One point is awarded toward the basic score for each match between a suggested answer selected or not selected by the examinee and a suggested answer recognized as correct or incorrect. ⁵If the examinee does not select a suggested answer that is recognized as correct or if the examinee selects a suggested answer that is not recognized as correct, one point is subtracted from the basic score in each case. ⁶The basic score of a multiple-choice question

cannot be less than zero points. ⁷The raw points are calculated from the basic score multiplied by the respective weighting factor of the multiple-choice task. ⁸The total achievable maximum performance is calculated from the sum of the products of all evaluation scores with the respective weighting factor of all multiple-choice tasks.

(6) In the case of written module examinations or written submodule examinations that are only partially taken using the multiple-choice procedure, paragraphs 3 to 5 only apply to the respective part at issue.

(7) ¹A written module examination or written submodule examination can also be taken in electronic form. ²The course instructor shall announce the type and scope of the electronic examination at the start of the course. ³Within the scope of the course, students are given sufficient opportunity to become familiar with the electronic examination system before the examination. ⁴The provisions of data protection law must be observed.

Section 18

Other Forms of Module Examinations and Submodule Examinations

(1) ¹A presentation is an independently prepared talk that should be supported by suitable visual aids. ²The presentation may be followed by a discussion.

(2) An academic report is the written, systematic presentation of a suitable course or several suitable courses, including a critical discussion of the contents.

(4) Section 14, paragraph 8, sentences 2 and 3 apply accordingly.

(5) Further details can be found in Annex 2.

4. Results of the Master's Examination

Section 19

Passing and Failing of the Master's Examination

(1) The Master's examination should be passed by the end of the fourth semester.

(2) ¹The Master's examination is passed if, by the end of the fifth semester at the latest

1. All module examinations or submodule examinations of the compulsory modules and the required compulsory elective modules have been passed in a manner specified in Annex 2 and
2. The required number of 120 ECTS points has been earned.

²The Master's examination is also passed if the requirements of sentence 1 are not met within the period specified therein, but are met within the framework of a repetition attempt permitted under these Examination and Study Regulations.

(3) The Master's examination is definitively failed if the module examination or a submodule examination of one of the compulsory modules or required compulsory elective modules specified in Annex 2 has been taken but failed, and there are no retry attempts left.

(4) ¹In accordance with Section 11, paragraph 8, and Section 31, the Master's

examination shall be deemed

1. To have been taken for the first time and failed if the deadline specified in paragraph 1 is exceeded by more than one semester for reasons for which the student is responsible, and
2. To have been definitively failed if the deadline specified in paragraph 1 is exceeded by more than two semesters for reasons for which the student is responsible.

²Section 11, paragraph 5, sentences 3 to 7 apply accordingly.

Section 20 Notification and Confirmation in Case of Failure

(1) If the Master's examination is

1. Definitively failed in accordance with Section 19, paragraph 3 or
2. Deemed as having been definitively failed in accordance with Section 19, paragraph 4, sentence 1, no. 2,

the Chair of the Examination Board shall issue a written decision on this matter, providing instructions on legal recourse.

(2) If the Master's examination has been failed or is deemed to have been failed, a confirmation will be issued on request and on presentation of the confirmation of disenrollment, which contains the successfully completed module examinations and submodule examinations, the allocated ECTS points and grades, as well as a declaration that the Master's examination has not been passed.

Section 21 Calculation of the Final Grade

¹If the Master's examination is passed in accordance with Section 19, paragraph 2, the final grade is calculated from the arithmetic mean of the module grades weighted in accordance with Annex 2/column 16; Section 10, paragraph 3, sentences 2 and 3 apply accordingly to the calculation of the final grade from the module grades. ²If more than 120 ECTS credits are earned in the Master's examination, only the 120 ECTS credits required to pass the Master's examination are taken into account while calculating the final grade. ³To pass the Master's examination, students must have passed

1. All module examinations and submodule examinations assigned to the compulsory modules in a manner specified in Annex 2 and
2. All module examinations and submodule examinations assigned to the compulsory elective modules in a manner specified in Annex 2.

⁴If module examinations and/or submodule examinations are taken for more compulsory elective modules than must be completed in accordance with sentence 3, no. 2, the chronologically first successfully completed one shall be deemed to be required within the meaning of sentence 2, subject to Section 7, paragraph 2, sentences 3 and 4. ⁵In the case of compulsory elective modules, if the assigned module examinations and/or submodule examinations

1. Were successfully completed in different semesters, the ones completed earlier
2. Were successfully completed in the same semester, the ones with a better grade

shall be taken into consideration. ⁶For the first instance where a compulsory elective module's module or submodule examination exceeds 120 ECTS points, the ECTS points allocated to the module shall be included only to the extent that the total does not exceed 120 ECTS points.

Section 22

Master-Urkunde, Master's Diploma, Master-Zeugnis, Master's Certificate, Transcript of Records, and Diploma Supplement

(1) ¹After the Master's examination is passed, the student is provided with a Master-Urkunde in German and a Master's Diploma in English, which bear the date of the day on which the last module examination or submodule examination was completed. ²These certify the award of the academic degree in accordance with Section 2.

(2) ¹Along with receiving the Master-Urkunde and the Master's Diploma, the student is provided with the Master-Zeugnis in German and the Master's Certificate in English, bearing the date of the Master-Urkunde and the Master's Diploma. ²The topic of the Master's thesis and the grade awarded to it as well as the final grade must be included in the Master-Zeugnis and Master's Certificate.

(3) ¹The Examination Office also issues a Transcript of Records in German, which contains all completed modules and the module examinations and submodule examinations assigned to them, including the ECTS points and grades awarded for them. ²Module examinations and submodule examinations that are not included in the Master's examination in accordance with Sections 19 and 21 are noted for informational purposes.

(4) The Examination Office also issues a Diploma Supplement in English with information about the type and level of the Master's degree, the status of Ludwig-Maximilians-Universität München, and detailed information about the study program of the Master's degree program.

(5) ¹The Master-Urkunde and the Master's Diploma are signed by the Dean and the Chair of the Examination Board; the Master-Zeugnis and the Master's Certificate are signed by the Chair of the Examination Board; the Transcript of Records and the Diploma Supplement are signed by the Head of the Examination Office. ²The Master-Urkunde, Master's Diploma, Master-Zeugnis, Master's Certificate, Transcript of Records, and Diploma Supplement bear the seal of Ludwig-Maximilians-Universität München.

(6) ¹If, after a Master-Urkunde, Master's Diploma, Master-Zeugnis, Master's Certificate, Transcript of Records, Diploma Supplement, another certificate, another document, or transcript has been issued and delivered, it becomes evident that cheating occurred or unauthorized aids were used, or that examiners were manipulated, the Examination Board may subsequently rectify the relevant grades and declare the examination as failed, either in whole or in part. ²Electronic aids may be used to detect cheating with the approval of the Examination Board. ³The incorrect Master-Urkunde, the incorrect Master's Diploma, the incorrect Master-Zeugnis, the incorrect Master's Certificate, the incorrect Transcript of Records, the incorrect Diploma Supplement, any other incorrect certificate, any other incorrect document, or an incorrect transcript must be withdrawn. ⁴If the requirements are met, a correct Master-Urkunde, a correct Master's Diploma, a correct Master-Zeugnis, a correct Master's Certificate, a correct Transcript of Records, a correct Diploma Supplement, a correct other certificate, a correct other document, or a correct final transcript must be issued. ⁵A decision of this kind is not possible after five years have passed from the date of the Master-Zeugnis and the Master's Certificate. ⁶An opportunity to comment must be provided before a decision is made in accordance with sentence 1 and/or sentence 3. ⁷Decisions that are detrimental to the student must be communicated to student in writing.

including the reasons behind the decision and details regarding legal recourse.

IV. Examination Committees and the Examination Administration

Section 23 Examination Board and Examination Office

(1) ¹The Examination Board consists of three members who must be authorized to conduct examinations in accordance with Article 85, paragraph 1, sentence 2 of the current version of the Bavarian Higher Education Innovation Act (BayHIG) in conjunction with the current version of the University Examiners Ordinance (HSchPrüferV). ²The members of the Examination Board are appointed by the Faculty Council. ³Members of the Examination Board Committee serve a term of three years. ⁴Reappointment is permissible.

(2) ¹The members are to appoint a Chair and Deputy Chair from among themselves. ²The Chair and Deputy Chair serve a term of three years. ³Reappointment is permissible.

(3) Sections 69, 70 and 72 of the university constitution of Ludwig-Maximilians-Universität München, in the respective prevailing version, apply to the course of business.

(4) ¹The Examination Board is responsible for organizing examinations, appointing examiners and assessors (Section 24, paragraph 3), and making decisions in examination-related matters. ²The Examination Office assists the Examination Board with the performance of its duties. ³The Examination Board ensures that the provisions of these Examination and Study Regulations are complied with. ⁴It provides regular reports to the Dean of Studies on the development of examinations and study periods and makes suggestions for the reform and appropriate revision of these Examination and Study Regulations.

(5) ¹The Examination Board may delegate the completion of certain tasks to the Chair of the Examination Board, their Deputy Chair, or the Examination Office. This delegation of tasks is subject to revocation. ²Furthermore, the Chair of the Examination Board is also authorized, in place of the Examination Board, to make decisions that cannot be postponed; the Chair of the Examination Board must notify the Examination Board of this without delay.

(6) The members of the Examination Board are authorized to attend examinations.

Section 24 Examiners and Assessors

(1) ¹In the case of module examinations and submodule examinations that only apply to one course and with the exception of the Master's thesis, the examiner is, in accordance with paragraph 4, sentence 1, the course instructor responsible for the course. ²In the case of module examinations and submodule examinations that concern several courses taught by different course instructors, the Examination Board shall designate a course instructor as the examiner, either in general or on a case-by-case basis. ³Sentence 2 applies accordingly if the course instructor is not authorized to conduct examinations (paragraph 4, sentence 1).

(2) Written module examinations and submodule examinations that should be evaluated as "failed" must be assessed by two examiners; oral module examinations and submodule examinations must be evaluated by at least one examiner and one expert assessor (paragraph 3, no. 1).

(3) The Examination Board shall make the following appointments, either in general or on a case-by-case basis:

1. The assessors for oral module examinations and submodule examinations,
2. A second examiner for module examinations and submodule examinations that are to be evaluated as "failed",
3. An examiner (Section 14, paragraph 3) or multiple examiners (Section 14, paragraph 9) for the Master's thesis.

(4) ¹Examiners must be authorized to conduct exams in accordance with Article 85 paragraph 1 sentence 2 BayHIG in conjunction with HSchPrüferV in their respective currently valid versions. ²Assessors must be qualified persons who have successfully completed at least a Master's degree program or have a comparable qualification.

(5) The individual examiners and supervisors are responsible for conducting the examination procedure.

Section 25 **Degree Program Coordinator,** **Duties of Examiners**

(1) ¹The Degree Program Coordinator for this Master's degree program is appointed by the faculty. ²As long as no appointment has been made, the Dean of Studies shall perform the duties. ³The Degree Program Coordinator carries out the following duties in collaboration with the Examination Board, the Examination Office, and the Central University Administration Office

1. When establishing and making possible changes to this Master's degree program:
 - a. The review of the modular structure of these Examination and Study Regulations from a professional perspective,
 - b. The preparation of the necessary information about this Master's degree program for students and examiners,
2. Subsequently: the coordination and organization of the courses, module examinations, and submodule examinations, in particular
 - a. The convening of an annual curriculum conference,
 - b. The assignment of the specific courses to be held to the abstract courses outlined in these Examination and Study Regulations,
 - c. The announcement of courses in the university catalog,
 - d. The entry of courses into the electronic data processing system,
 - e. The scheduling and room allocation of courses, module examinations, and submodule examinations, and
 - f. The entry of grades into the electronic data processing system.

(2) ¹Using the standardized form specified by the Examination Office, the examiners (Section 24) must immediately notify the Examination Office which students took part in their course, and their respective results. ²The notifications must be submitted to the Examination Office in a timely manner and in the correct form; the Examination Office will announce at the latest at the beginning of each semester when the notifications must be submitted to the Examination Office. ³If the requirements of sentence 2 are not met, the courses in question will not be reflected in the current transcripts (Section 12). ⁴The examiner must submit these

notifications to the Examination Office as soon as possible and send individual confirmations to all affected students, along with a notice containing information on legal recourse as postal delivery orders.

Section 26 Student Obligations to Cooperate

Student obligations to cooperate are regulated in the respective current version of the Ludwig-Maximilians-Universität München's statutes on enrollment, continuation of registration, leave of absence and de-registration.

V. Implementation of Examinations

Section 27 Recognition and Credit Transfer of Competencies

(1) ¹Study periods, academic achievements, and examination achievements completed or obtained in another degree program at Ludwig-Maximilians-Universität München or in degree programs at other state or state-recognized institutions of higher education in the Federal Republic of Germany, through successful participation in a distance learning unit as part of a degree program at a state or state-recognized institution of higher education in the Federal Republic of Germany, or in degree programs at state or state-recognized foreign institutions of higher education, as well as degrees acquired on the basis of such degree programs are to be credited, provided there exist no significant differences with regard to the competencies acquired and competencies to be demonstrated. ²The same applies to academic and examination achievements completed or obtained at a state or state-recognized institution of higher education in Bavaria as part of modular and additional studies, at the Bavarian Virtual University or as part of an early or junior degree course (Article 77 paragraph 7 BayHIG as amended).

(2) ¹Competencies acquired as part of further education or further qualification studies or outside the higher education sector may be credited if they are equivalent. ²Competencies acquired outside the higher education sector may replace no more than half of the competencies to be demonstrated.

(3) ¹If academic or examination achievements are recognized or credited, the grades – insofar as the grading systems are equivalent – shall be adopted and used for the calculation of module and final grades in accordance with these Examination and Study Regulations.

²The grades transferred shall be indicated as such and the transfer noted in the certificate. ³If the grading systems are not equivalent, the Chair of the Examination Board shall determine a grade for the academic achievements and examination achievements recognized or credited based on the grading levels pursuant to Section 10, paragraph 2, and shall do so in accordance with sentences 1 and 2. ⁴Sentences 1 to 3 shall apply accordingly for the allocation of ECTS credits.

(4) ¹In accordance with Article 86 paragraph 3 BayHIG in the current valid version, recognition and crediting are generally carried out upon application. ²Applicants must submit the required information for the procedure to the Examination Board no later than by the end of the first semester following enrollment in this Master's degree program at Ludwig-Maximilians-Universität München, provided periods of study, academic or examination achievements are to be recognized or credited which were already completed prior to enrollment in the Master's degree program at Ludwig-Maximilians-Universität München. ³For

the recognition or credit transfer of periods of study, academic achievements, and examination achievements completed after the completion of enrollment in this Master's degree program at Ludwig-Maximilians-Universität München, the information must be provided in the respective semester following their acquisition.⁴Proof of periods of study to be recognized or credited are normally furnished by submitting the record of study from the university at which the period of study was completed.⁵For the recognition or credit transfer of academic achievements and examination achievements, a confirmation from the respective university at which the academic achievements and examination achievements were obtained is to be submitted. This confirmation must contain the following information:

1. Which individual examinations (oral and/or written) were to be taken in which examination subjects as part of the overall examination,
2. Which examinations were actually taken,
3. An assessment of the study and examination achievements and where applicable, the subject grade,
4. The grading system on which the assessment is based,
5. In the case of degree programs with credit point systems: the number of credit points awarded for the individual courses in which the study and examination achievements to be recognized or credited were obtained, as well as the number of credit points required for successful completion of the degree program,
6. The scope of the individual courses in which the study and examination achievements to be recognized or credited were obtained, specified as the number of semester hours per week, and
7. Whether an overall examination has not been passed based on the existing results, or is deemed to have been failed as a result of other circumstances.

⁶Suitable evidence (certificates, documentation, etc.) will need to be submitted for the credit transfer of competencies acquired outside the higher education sector.

(5) Submission of a certified German translation may be required for certificates and documents which were not issued in German.

(6) In cases of doubt, the Examination Board shall decide on applications for the recognition and crediting of periods of study, academic achievements, and examination achievements after considering the opinion of the relevant subject representative.

Section 28

Enrollment in Courses and Registration for Module Examinations and Submodule Examinations; Study-Related Measures

(1) ¹For individual or all courses, the Examination Board may require enrollment for participation in the course and may set the form and deadline for enrollment. ²Students who have not enrolled in a course for which enrollment is required in accordance with sentence 1, or who have not enrolled in due form and/or time, are not entitled to participate in this course. ³Courses for which enrollment is required, along with the form and deadline for enrollment, will be announced by the Examination Office as is customary, in the first two weeks after the semester has started; it is sufficient for the Examination Office to issue an announcement solely online.

(2) ¹Registration is required for all module examinations and submodule examinations; the Examination Board defines the form and deadline for registration. ²Students who have not registered for a module examination or submodule examination or who have not registered in due form and/or time are not entitled to participate in this module examination or submodule examination. ³The Examination Board may also in general order that a module examination or submodule examination for which the student has registered is deemed to

have been failed if the student does not take the module examination or submodule examination for reasons for which they are responsible or withdraws from the module examination or submodule examination taken. ⁴Paragraph 1, sentence 3 shall apply accordingly to the respective registration's form and deadline.

(3) ¹A written record shall be created for the announcements in accordance with paragraph 1, sentence 3, and paragraph 2, sentence 4, detailing, in particular, the content of the decisions and the time, method, and location of their announcement. ²The Chair of the Examination Board shall sign the record, which will be retained by the Examination Office for at least five years.

(4) Study-related measures are defined in a special statute of Ludwig-Maximilians-Universität München.

Section 29 Failure to Attend, Withdrawal

(1) A module examination or submodule examination shall be deemed to have been "failed" or graded "insufficient" (5.0) if the student

1. Misses an examination date for a module examination or submodule examination for which they registered and for which the Examination Board issued an order in accordance with Section 28, paragraph 2, sentence 3, due to a reason for which they are responsible or
2. Withdraws from a module examination or submodule examination that they have begun to take for a reason for which they are responsible, or
3. Has not completed a written module examination or submodule examination within the specified processing time for a reason for which they are responsible.

(2) ¹The reason for withdrawing or failing to attend the examination must be submitted to the Examination Office immediately in writing and substantiated. ²Section 11, paragraph 5, sentences 4 to 7 apply accordingly.

Section 30 Cheating, Violation of Regulations

(1) If the student attempts to influence the result of a module examination or submodule examination by cheating, using unauthorized aids, or manipulating the examiners to their own or a third party's advantage, the module examination or submodule examination in question will be graded as "failed" or "insufficient" (5.0); in the case of written module examinations and submodule examinations, possession of unauthorized aids during and after the issue of the examination documents alone is deemed to be an attempt.

(2) A student who disrupts the examination's orderly progress may be excluded from continuing with the module examination or submodule examination by the respective examiner or supervisor; in this case, the module examination or submodule examination will be graded as "failed" or "insufficient" (5.0).

(3) In serious or repeated instances as outlined in paragraph 1 and/or paragraph 2, the Examination Board may exclude the student from taking further module examinations and submodule examinations; where applicable, the student will be disenrolled in accordance with the prevailing version of Article 94, paragraph 2, in conjunction with Article 91, no. 2 BayHIG.

(4) Section 22, paragraph 6, sentences 2, 6 and 7 apply accordingly.

Section 31

Protective provisions under the Maternity Leave Act, the Federal Parental Allowance and Parental Leave Act, and the Period of Family Care Act

(1) The assertion of the protective provisions in accordance with the Maternity Leave Act (Mutterschutzgesetz) in the respective prevailing version as well as according to the deadlines of the Federal Parental Allowance and Parental Leave Act (Bundeselterngeld- und Elternzeitgesetz) in the respective prevailing version concerning parental leave or in accordance with the deadlines of the Period of Family Care Act (Pflegezeitgesetz) in the respective prevailing version concerning the period of family care shall be made possible.

(2) ¹The faculty is to determine which courses, whose location, time and scheduling are defined in a binding fashion for students by Ludwig-Maximilians-Universität München, are not compulsory for pregnant or breastfeeding students; the same shall apply to internships which are defined as being compulsory as part of a university's course of study. ²Students who are pregnant or breastfeeding should inform the Examination Office of this as early as possible. ³The Examination Board, in consultation with the course director, shall immediately determine the concrete protective measures required in accordance with the event-independent risk assessment pursuant to sentence 1 and shall inform the pregnant or breastfeeding student of this. ⁴Simultaneously, the course director shall invite her to a meeting to discuss further adjustments to the study and examination conditions to meet the needs of the student during her pregnancy or breastfeeding. ⁵Disadvantages due to the pregnancy, delivery, or nursing are to be avoided or compensated for. ⁶The general regulations on compensation for disadvantages remain unaffected. ⁷Registration for an examination does not constitute an express declaration to waive the periods of protection, even if it is submitted after prior formal notification of the pregnancy or the period of breastfeeding in accordance with sentence 2.

Section 32

Compensation for Disadvantages for Students in Special Circumstances

(1) ¹Severely disabled persons and persons with equal status pursuant to the Social Code – Ninth Book – SGB IX in the respective prevailing version shall, upon request, be granted an extension in the examination duration of up to one quarter of the normal examination period by the Examination Board, depending on the severity of the proven examination disability. ²In cases of particularly severe exam-related disabilities, the duration of the examination may be extended by up to one-half of the normal examination duration upon request. ³In addition to, or as an alternative to an extension of the examination duration, other appropriate compensation may be arranged.

(2) ¹Other examinees who are significantly impaired from taking the module examinations or submodule examinations due to an identified, not merely temporary physical disability or chronic illness within the meaning of the Bavarian Disability Equality Act (BayBGG) in its current valid version may be granted compensation for disadvantages in accordance with paragraph 1. ²In the case of temporary disabilities, other suitable measures may be taken.

(3) ¹Applications for compensation for disadvantages must be submitted no later than when registering for a module examination or submodule examination, or no later than one month before the respective module examination or submodule examination. ²The disability must be substantiated. ³The Examination Board may require that evidence for this be provided in the form of a medical certificate. ⁴Section 11, paragraph 5, sentences 4 and 5

apply accordingly.

Section 33 Deficiencies in the Examination Process

(1) If it becomes apparent that an examination procedure had substantial deficiencies that may have influenced the examination result, the entire module examination or submodule examination or an individual part thereof shall be repeated by certain or all participants at the request of a participant or at the university's own discretion.

(2) ¹Any alleged deficiencies in the examination procedure or an inability to take the examination that occurred before or during the module examination or submodule examination must be immediately asserted and substantiated to the supervisor, the examiner, the Examination Office, or the Chair of the Examination Board, but at the latest before the examination result is announced. ²Any orally articulated and justified/validated reasons within the sense of sentence 1 must also be submitted and substantiated immediately in writing to the Examination Office or to the Chair of the Examination Board. ³Assertion and substantiation are no longer possible if more than one month has passed since the date on which the module or submodule examination was taken. ⁴Section 11, paragraph 5, sentences 3 to 7 apply accordingly.

Section 34 Inspection of Examination Records, Retention Periods

¹After the module examination or submodule examination is completed, within the period designated by the Examination Office as is customary, the student shall be granted access to the examination and the related reports and records within a reasonable period of time upon making the request to the Examination Office; it is sufficient for the Examination Office to announce the period solely online. ²The Examination Office may announce that, by way of derogation from sentence 1, such access in accordance with sentence 1 will be granted at another office of Ludwig-Maximilians-Universität München; it is sufficient for the Examination Office to issue an announcement about the other office solely online. ³The full examination records shall be archived for a minimum of five years. ⁴The main record, which consists of copies of the Master-Urkunde, the Master's Diploma, the Master-Zeugnis, the Master's Certificate, and the Transcript of Records, shall be kept indefinitely. ⁵The records may be kept in electronic form.

VI. Final Provisions

Section 35 Entry into Force and Transitional Provisions

(1) These statutes shall enter into force with effect from October 1, 2023.

(2) Students enrolled in the Master's degree program in Astrophysics in winter semester 2023/24 or later will study on the basis of the Examination and Study Regulations of Ludwig-Maximilians-Universität München for the Master's degree program in Astrophysics (2023) dated February 8, 2024.

(3) Students who are already enrolled in the Master's degree program in Astrophysics in summer semester 2023 will continue their studies on the basis of the respective current

version of the statutes under which they have been studying to date.

Issued based on the decision of the Board of University Representatives of Ludwig-Maximilians-Universität München on June 22, 2023 and the approval of the President of Ludwig-Maximilians-Universität München on February 8, 2024, no. I.3-452.17:2.

Munich, dated February 8, 2024

Signed by

Prof. Dr. Dr. h.c. Bernd Huber President

The statutes were published on February 8, 2024 on the website of Ludwig-Maximilians-Universität München under the section “Amtliche Veröffentlichungen (Official Publications)” under the link: <https://www.lmu.de/de/die-lmu/amtliche-veroeffentlichungen/index.html>. The date of publication is therefore February 8, 2024.