

PHY-765 - Gravitational Lensing (GL)

Exam Info and Format

The Exam will be oral and last no more than 45 minutes.

The date will be set individually by agreement with the student.

The exam will consist of two parts:

Part 1 (≈ 25 minutes):

Presentation of a topic from the lectures to be chosen by the student.

This presentation will be followed by questions of clarification and elaboration on this topic.

Interrupting questions during the presentation will be kept at a minimum.

Part 2 (≈ 20 minutes):

A “question and answer” session on topics presented during the semester’s lectures, exploring the student’s overall understanding and knowledge of the topics covered in the course.

There will be no break between part 1 and part 2.

Guidelines for the presentation given in part 1:

Format: The presentation should be given in english.

The presentation can be given via the student’s laptop connected to the projector/screen.

Please make sure the laptop is compatible with the projector/screen *before* the exam.

Bring the presentation slides as PDFs on a USB stick for back-up. Blackboards may also be used.

Topic: The presentation should cover any of the topics presented in the course lectures.

It is not expected that material additional to what has been presented in class is included.

However, if useful for illustrative purposes, such material may of course be included.

Duration: The presentation should last a minimum of 15 minutes and a maximum of 20 minutes.

It is recommended to rehearse the talk (potentially with an audience) before the exam to ensure that the presentation will be within the time constraints.

Guidelines for “question and answer” session in part 2:

The examiner will ask a series of questions, with the goal of determining the student’s knowledge and understanding of the concepts of gravitational lensing presented throughout the course.

Weight is put on the student’s overall understanding of the concepts and knowledge about how these are used in observational astronomy. Hence, long derivations of equations on the black board are not expected, but simple few-step conversions and calculations are encouraged.

Evaluation of exam performance:

The performance at the exam will be evaluated using the standard grade-scale of Uni Potsdam (from 1=“sehr gut” to 5=“nicht ausreichend”) described at <https://www.uni-potsdam.de/studium/konkret/pruefungsorganisation/faq/benotung.html>