

# Course Plan: PHY-765 - Gravitational Lensing (GL)

version: April 2, 2018

Lecture plan subject to change. See [https://kasperschmidt.github.io/teaching/SS18\\_GravLens\\_UP765](https://kasperschmidt.github.io/teaching/SS18_GravLens_UP765) for details.

W	Lecture (Wed.'s 08:15-09:00)	Exercise/Seminar (Wed.'s 09:00-09:45)	Location
1	Early days of gravitational lensing (GL)	Worksheet 01	2.28.2.011
2	Light deflection and basic GL geometry	Worksheet 02 (Select poster topic for presentation)	2.28.2.011
3	Multiple images	Worksheet 03	2.28.2.011
4	The lens equation	Worksheet 04 (Poster presentations)	2.28.2.011
5	Magnifying sources	Worksheet 05 "Journal club" assignments 1	2.28.2.011
6	GL time delays	Worksheet 06 (Present "journal club" papers 1) Essay assignments	2.28.2.011
7	Finding gravitational lenses	Worksheet 07	2.28.2.011
8	Micro GL	Worksheet 08 (Finishing essay)	2.28.2.011
9	Searching for extrasolar planets with GL	Worksheet 09 "Journal club" assignments 2	2.28.2.011
10	Modeling GL	Worksheet 10 Present "journal club" papers 2 Essay review assignments	2.28.2.011
11	Special lecture/seminar — — Re-schedule to AIP — —	Worksheet 11	AIP on XX?
12	Weak GL	Worksheet 12 Essay review exercise feedback	2.28.2.011
13	Lensing the CMD	Worksheet 13	2.28.2.011
14	The future of GL	Worksheet 14 Select and start preparing outreach presentation	2.28.2.011
15	Loose ends and Q&A	Worksheet 15	2.28.2.011

Potential Examination:  
45 min. oral examination  
20 min presentation w. topics known in advance + Q&A.