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

version: April 30, 2018

Lecture plan subject to change. See https://kasperschmidt.github.io/teaching/SS18_GravLens_UP765 for details.

W	Lecture (Wed.'s 08:15-09:05)	Exercise/Seminar (Wed.'s 09:10-09:55)	Location
1	**Slides 01** Intro & Early days of GL	**Worksheet 01** (Literature searches and first lenses)	2.28.2.011
2	**Slides 02** Light deflection and basic GL geometry	**Worksheet 02** (Select poster topic for presentation)	2.28.2.011
3	**Slides 03** The lens equation	**Worksheet 03**	2.28.2.011
4	**Slides 04** Multiple images	**Worksheet 04** (Poster presentations)	2.28.2.011
5	Slides 05 GL time delays	Worksheet 05 "Journal club" allocations 1	2.28.2.011
6	Slides 06 Magnifying sources	Worksheet 06 (Present "journal club" papers 1) Essay allocation	2.28.2.011
7	Slides 07 Finding gravitational lenses	Worksheet 07	2.28.2.011
8	Slides 08 Micro GL	Worksheet 08 (Finishing essay)	2.28.2.011
9	Slides 09 Searching for extrasolar planets with GL	Worksheet 09 "Journal club" assignments 2	2.28.2.011
10	Slides 10 Modeling GL	Worksheet 10 (Present "journal club" papers 2) Essay review allocation	2.28.2.011
11	No lecture and seminar. Compensated by 5-10 minutes longer days weeks 3-15		N/A
12	Slides 12 Weak GL	Worksheet 12 Essay review feedback	2.28.2.011
13	Slides 13 Lensing the CMB	Worksheet 13	2.28.2.011
14	Slides 14 The future of GL	Worksheet 14 (Select and start preparing outreach)	2.28.2.011
15	Slides 15 Summary, loose ends and Q&A	Worksheet 15 (Outreach presentations)	2.28.2.011

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