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

version: May 29, 2018

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

Week Date	Lecture (Wed.'s 08:15-09:05)	Exercise/Seminar (Wed.'s 09:10-09:55)	Location
1 April 11	Slides 01 Intro & Early days of GL	Worksheet 01 (Literature searches and first lenses)	2.28.2.011
2 April 18	Slides 02 Light deflection and basic GL geometry	Worksheet 02 (Select poster topic for presentation)	2.28.2.011
3 April 25	Slides 03 The lens equation	Worksheet 03	2.28.2.011
4 May 2	Slides 04 Multiple images	Worksheet 04 (Poster presentations)	2.28.2.011
5 May 9	Slides 05 Time delays	Worksheet 05 ("Journal club" allocation 1)	2.28.2.011
6 May 16	Slides 06 Magnifying sources	Worksheet 06 (Present "journal club" papers 1) (Essay allocation)	2.28.2.011
7 May 23	Slides 07 Finding (strong) gravitational lenses	Worksheet 07	2.28.2.011
8 May 30	Slides 08 Microlensing	Worksheet 08 ("Journal club" allocation 2)	2.28.2.011
9 June 6	Slides 09 Searching for extrasolar planets with GL	Worksheet 09 (Present "journal club" papers 2)	2.28.2.011
10 June 13	Slides 10 Modeling GL	Worksheet 10 (Essay review allocation)	2.28.2.011
11 June 20	No lecture and seminar. Compensated by 5-10 minutes longer days weeks 3-15		N/A
12 June 27	Slides 12 Weak GL	Worksheet 12 (Essay review feedback) (Select topic for 'talk')	2.28.2.011
13 July 4	Slides 13 Lensing the CMB	Worksheet 13 (Science presentations w. slides) (Select and start preparing outreach)	2.28.2.011
14 July 11	Slides 14 The future of GL	Worksheet 14 (Finish outreach)	2.28.2.011
15 July 18	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.