

## PHYS3080/7080

Week	Date	Activity	Deadlines & Notes	Reading (Schneider)	Topic	Session	Lecturer
1	21/2/22	Lecture		1.1	Introduction	Mon 12-1	Holger
	21/2/22	Lecture		1.2.1, 1.2.2	Galaxies - Introduction	Mon 1-2	Holger
	25/2/22	Workshop			Distance ladder project	Fri 10-12	Ben
2	7/3/22	Lecture		2.3	Galactic structure	Mon 12-1	Holger
	7/3/22	Lecture		2.3-2.4	Rotation cuves & dark matter	Mon 1-2	Holger
	11/3/22	Workshop			Distance ladder project	Fri 10-12	Ben
3	14/3/22	Lecture		CO 24.3(1E) / 25.3(2E)	Spiral Structure	Mon 12-1	Sarah
	14/3/22	Lecture		3.4	Galaxy Scaling relations	Mon 1-2	Sarah
	18/3/22	Workshop			Distance ladder project	Fri 10-12	Ben
4	21/3/22	Lecture		2.6	The centre of the Milky Way	Mon 12-1	Sarah
	21/3/22	Lecture		3.8, 5.1.1, 5.2, 5.3	Active Galaxies	Mon 1-2	Sarah
	25/3/22	Workshop			Distance ladder project	Fri 10-12	Ben
5	28/3/22	Lecture		5.4.2, 5.4.5, 5.7	Active Galaxies II	Mon 12-1	Sarah
	28/3/22	Lecture		6.1, 6.3.2, 6.4.1, 6.6.1	Galaxy Clusters	Mon 1-2	Sarah
	1/4/22	Workshop			Distance ladder project	Fri 10-12	Ben
6	4/4/22	Lecture	Problem Sheet due on 7/4	CO 26.1 (2E)	Galaxy Interactions	Mon 12-1	Sarah
	4/4/22	Lecture		10.1, 10.4, 10.5	Galaxy Formation	Mon 1-2	Sarah
	8/4/22	Workshop			Distance ladder project	Fri 10-12	Ben
7	11/4/22	Lecture	DL reports due on 14/4	4.1-4.2.2	Cosmology - Introduction	Mon 12-1	Rossana
	11/4/22	Lecture		arxiv:1404.7266 Sec.1-3	Como constraints on dark energy	Mon 1-2	Rossana
	15/4/22			No lecture/workshop (Good Friday)			
Mid-semester break							
8	25/4/22		No lecture (Anzac Day)				
	25/4/22						
	29/4/22	Workshop		4.2.3-4.2.7	Cosmology parameter project	Fri 10-12	Tamara
9	3/5/22	Lecture	Note change of date !	4.3	Expansion kinematics	Mon 12-1	Tamara
	3/5/22	Lecture			Expansion dynamics	Mon 1-2	Tamara
	6/5/22	Workshop			Cosmology parameter project	Fri 10-12	Tamara
10	9/5/22	Lecture		Practical Statistics	Expansion dynamics + distances	Mon 12-1	Tamara
	9/5/22	Lecture		arxiv:1404.7266 Sec. 4	Curvature and how to measure it	Mon 1-2	Tamara
	13/5/22	Workshop			Cosmology parameter project	Fri 10-12	Tamara
11	16/5/22	Lecture	Scientific Essay (masters) due 19/5	4.4	Thermal History of Universe	Mon 12-1	Tamara
	16/5/22	Lecture			Big Bang Nucleosynthesis + Dark	Mon 1-2	Tamara
	20/5/22	Workshop			Cosmology parameter project	Fri 10-12	Tamara
12	23/5/22	Lecture	Problem Sheet due on 26/5	4.5 + Liddle Ch 13	Inflation	Mon 12-1	Tamara
	23/5/22	Lecture		arxiv:1404.7266 Sec. 4	CMB history and first peak	Mon 1-2	Tamara
	27/5/22	Workshop			Cosmology parameter project	Fri 10-12	Tamara
13	30/5/22	Lecture	CP reports due 2/6, 2pm	Wayne Hu tutorial or 8.6	Baryon Acoustic Oscillations	Mon 12-1	Rossana
	30/5/22	Lecture		8.1-8.1.3	CMB all peaks, polarization, SZ, IS	Mon 1-2	Rossana
	3/6/22	Workshop			Cosmology parameter project	Fri 10-12	Tamara