

Schedule for ASTM18, Observational Techniques and Instrumentation, Spring 2020

Date			LMK telescope, Lab 1
Tues 24/3	Lecture 1 Andromeda 10.15–12	Nils Ryde: Introduction - overview. European observational Astronomy	
Fri 27/3	Lecture 2 Andromeda 13.15–15	Nils Ryde: Astronomical concepts, light and uncertainties [Textbook chapters 1, 2]	
Tues 31/3	Lecture 3 Tycho Brahe Observatory, Oxie 19:00-22	Peter Linde et al.: Evening visit to the Tycho Brahe Observatory in Oxie	
Fri 3/4	Planetarium 13.15–15	<i>Anna Anardottir: Planetarium</i>	<i>Trial 1</i>
Tues 7/4	Lecture 4 Andromeda 13.15–15	Lennart Lindegren: Astrometry [3]	<i>Trial 2</i>
Fri 10/4		Easter Holliday	
Tues 14/4	Lecture 5 Andromeda 13.15–15	Dainis Dravins: Detectors for optical Astronomy [7,8]	<i>Trial 3</i>
Fri 17/4	Lecture 6 Andromeda 13.15–15	Dainis Dravins: Interferometry. [9, 10]	
Tues 21/4	Lecture 7 Andromeda 13.15–15	Nils Ryde: Astronomical concepts cont. [Textbook chapters 1, 2] Chen Fanyao: CCD lab preparation Anna Árnadóttir: Stone Edge	<i>Trial 4</i>
Fri 24/4	Lab 2 Lyra or labs 13.15–15	Anna Árnadóttir: Remote observing at Stone Edge Observatory in Sonoma, California OR swap with 23/5 depending on weather Chen Fanyao: CCD lab otherwise	

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Tues 28/4	Lab 3 Lyra or labs 13.15–15	Anna Árnadóttir: Remote observing at Stone Edge Observatory in Sonoma, California OR swap with 16/5 depending on weather Chen Fanyao: CCD lab otherwise	
Fri 1/5		Holiday	
Tues 5/5	Lecture 8 Andromeda 13.15–15	Nils Ryde: Observing proposals, Surveys, catalogs, and their statistical uses [4]	
Fri 8/5	Lecture 9 Andromeda 13.15–15	Nils Ryde: Topics in optics – adaptive optics, optical fibers, materials, and software [5, 6]	
Tues 12/5	Lecture 10 Andromeda 13.15–15	Nils Ryde: Atmospheric optics, aberration, optical telescopes [5, 6]	
Fri 15/5	Lecture 11 Andromeda 13.15–15	Dainis Dravins: Radio telescopes and their instruments	
Tues 19/5	Lecture 12 Onsala 09:00–19	Magnus Thomasson: All-day visit to <i>Onsala Space Observatory</i> , Chalmers University of Technology	
Fri 22/5	Lecture 13 Andromeda 13:15–15	Nils Ryde: Spectrometers [11]	
Tues 26/5	Lecture 14 Andromeda 13.15–15	Nils Ryde: Student talks	
Fri 29/5	Lecture 15 Andromeda 13.15–15	Colin Carlile: Intensity Interferometry	

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Date			LMK telescope, Lab 1
Tue 2/6	Lecture 16 Andromeda 13.15–15	Dainis Dravins: Neutrino- and gravitational-wave instrumentation; X-ray, gamma-ray, and cosmic-ray observing	
Fri 5/6	Exam Andromeda 09.15–13	Written exam	