Cardiff Astrophysical Summer School 2025

Monday 21st - Friday 25th July

Programme

	9:00 - 12noon	12 noon - 13:30	13:30 - 14:00	14:00-17:00	Evening
Mon	**Welcome + Logistics** Intro to the ISM: the equations of radiative transfer, phases and chemical makeup of the ISM, and heating-cooling processes.	Lunch	Science highlight talks from Cardiff Staff	**Workshop:** using a Radiative Transfer Code to make synthetic images of the ISM	
Tues	Python programming for astrophysicists	Lunch		**Workshop:** image manipulation and data analysis	
Wed	Instrumentation for astronomy: a guide to sub-mm detectors + tour of the instrumentation labs	Lunch		Castle trips / sighseeing	**Student-staff dinner**
Thur	Star formation in molecular clouds	Lunch		**Workshop:** extracting properties of molecular clouds from dust continuum and line emission	
Fri	The ISM in nearby galaxies	Lunch		**Workshop:** extracting galaxy-scale properties from extra-galactic observations	

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