		Cle	oud Academy	II Program			
	Sunday 8th March	Monday 9th March	Tuesday 10th March	Wednesday 11th March	Thursday 12th March	Friday 13th March	
7:45-8:45		Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	
09:00-10:15 10:15-10:45	School buildings	Welcome + lightning talks Coffee Break	Helling lecture Coffee Break	Stam lecture Coffee Break	Vuitton (25+10) Moran (15+5) Coffee Break	Steinreuck (10+5) Gressler (10+5) Gobrecht (15+5) Coffee Break	
10:45-12:00	closed	Posters	Helling activity (incl. 10mins of CAI HAT-P7b activity report)	Stam activity	Signeroll (25+10) Bonnefoy (25+10)	Kavashima (15+5) Herbort (10+5) Poser (10+5)	
12:15-16:00		Lunch	Lunch	Lunch & Poster session	Lunch	Lunch	
16:00-17:15 17:15-17:45	Arrival (School opens 3pm)	Marley lecture Coffee Break	Apai lecture Coffee Break	Min (25+10) Karalidi (25+10) Coffee Break	Svensmark (25 +10) Showman (25 +10) Coffee Break	Departure	
17:45-19:00		Marley activity	Apai activity	Ugelow (10+5) Samra (10+5) Alam (10+5) Blecic (10+5)	Luna (10+5) Golzales (10+5) Matsumoto (10+5) Tan (10+5)		
19:00-20:30	Dinner	Dinner and Welcome Drinks	Dinner	Dinner	Dinner		
21:00-22:00		Informal Discussion	Informal Discussion	Informal Discussion	Informal Discussion		
Lecturers (1h15m + 1h15m) Lecture + activity Invited Speakers 25+10 minutes	Mark Marley : Why we care: How clouds interact with the atmospheres of planets and brown dwarfs and what we need from models. Christiane Helling: Modelling cloud formation: the devil sits in the micro-physics Daniel Apai : Time-domain observations of cloudy extrasolar atmospheres + activity with Yifan Zhou: HST/WFC3 Data Reduction Demonstration Daphne Stam : Polarimetry as a tool to characterise (exo)planets and their clouds Adam Showman : dynamic atmospheres Véronique Vuitton: The contribution of laboratory astrophysics to our knowledge of haze on Super-Earths and mini-Neptunes Mickaël Bonnefoy : Modelling of imaged exoplanets emission spectra Henrik Svensmark : Cosmic rays, clouds and climate Ruth Signorell : Characterization of single aerosol particles in optical traps Theodora Karalidi : From light curves to maps: making two-dimensional maps of exoatmospheres from observed light curves Michiel Min : Artful Retrieval						
10+5 mins (a few have 15+5min > check CAII programme!)	cloud opacities calculations Ugelow : Experimental Investigations of the Optical Properties of Complex Ice Clouds Samra: Mineral Snowflakes on Extra-solar Planets and Brown Dwarfs: Effects of Micro-Porosity, Size Distributions and Hollow Spheres retrieval						

Alam: A Complete Optical to Infrared Transmission Spectrum of HAT-P-32Ab: Interpreting Atmospheric Properties in the Presence of Clouds Blecic : Cloudy retrieval in the JWST era

non-equ gas chem

Steinrueck: For hot Jupiters, more small photochemical hazes on the leading limb compared to trailing limb

Kawashima: Theoretical Reflectance Spectra of Earth-like Planets through Their Evolutions: Impact of Clouds on the Detectability of Oxygen, Water, and Methane with Future Direct Imaging Missions Gobrecht: From Molecules to dust: Alumina cluster seeds

lab chem

Moran: Chemistry of Exoplanet Hazes from the Lab

CR effects

Matsumoto: Cosmic rays, clouds and aerosol

3D atmosphere

Tan : Intrinsic variability in cloudy atmospheres of brown dwarfs and isolated giant planets.

objects: brown dwarfs, mini-Neptunes

Luna: Investigating the Mineralogy of Clouds in Substellar Atmospheres

Gonzales: Retrieval of the d/sdL7+T7.5p binary SDSS J1416+1348AB

Gressler: Characterising the atmosphere of the Neptune-like planet HD 106315 c with Hubble WCF3 transmission spectra

linking atmosphere and crust

Herbort : Atmospheres of rocky exoplanets - Outgassing of Common Rock and the Stability of Liquid Water *Poser*: Clouds (in irradiated atmospheres) and their implications for interior models

2min	lightning talks	title
Monday & Tuesday	Barth	Modelling the influence of stellar XUV-flux on the atmospheric composition of HD 189733 b
	Bubb	Exploring the Variability of Giant Extrasolar Planet and Brown Dwarf Atmospheres
	Carone	Deep wind jets and their possible influence on atmosphere structure
	Christie	Coupling EddySed to the Unified Model with Improved Vertical Mixing
	Chubb	Aluminium oxide in the atmosphere of Hot Jupiter WASP-43b
	Fauchez	Impact of Clouds and Hazes on the Simulated JWST Transmission Spectra of Habitable Zone Planets in the TRAPPIST-1 System
	Fu	Statistical Analysis of Hubble/WFC3 Transit Spectroscopy of Extrasolar Planets
	Gandhi	Studying Cloudy Atmospheres with High Resolution Spectroscopy
	Habib	Simulated moist convective adjustment for planetary atmospheres (no abstract yet)
	Innes	Modelling the atmospheric dynamics of moist super-Earths
	Jordan	ACCESS: Exploring Exoplanet Atmospheres with Ground-based Transmission Spectroscopy
	Kohler	Laboratory Measurements of Enstatite and Forsterite
	Komacek	The effect of clouds on the climate and observable properties of terrestrial exoplanets
	Khaimova	Studying Exoplanet Atmospheres Using CARMENES Data
	Lacy	Combined Effects of Aerosols and Day-Night Temperature Gradients on Transit Spectra
	Laurent	High contrast observations of young sub-stellar companions with JWST
	Lee	DMC - A Kinetic Bin Based Cloud Formation Model
	Lefevre	Three-dimensional turbulence-resolving modeling of Proxima-B exoplanetary atmosphere.
	Lew	Rotational modulations of a rare planetary-mass object at the end of L/T transition
	McKinney	Investigating the Dynamical Similarity of Earth and Titan with a Simplified GCM
Wednesday-Friday	Mollière	Retrieving the atmospheric parameters of young, cloudy gas giant exoplanets
	Piette	Considerations for Atmospheric Retrievals of High-Precision Brown Dwarf Spectra
	Rooney	Asymptotic Homogenisation for Model Order Reduction
	Sindel	Faster geometries and energies for condensation core clusters
	Spaulding-Astudillo	The Effect of Moisture on Cloud Formation in Terrestrial Planetary Atmospheres
	Sutleiff	The Variability of Exoplanet Atmospheres through Direct Imaging
	Wagner	Imaging the Atmospheres of Giant Planets in Formation
	Wardenier	Modelling High-Resolution Emission Spectra of Hot Jupiters through 3D Cloudy Monte Carlo Radiative Transfer

	Webb	Observing above the cloud deck: High resolution spectroscopy of cloudy exoplanet atmospheres
	Welbanks	On degeneracies in retrievals of exoplanetary transmission spectra
	Whiteford	Directly-imaged atmospheric characterisation with TauREx retrievals
	Windsor	Structure and Spectra from a One-Dimensional, Partially Cloudy Rocky Exoplanet Climate Model
	Yu	Characterization of Cloud-Haze Interactions in Cool Exoplanets Atmospheres
	Zalesky	Atmospheric Retrieval of T Dwarf Spectra
	Zhang	Forward-Modeling Analysis of Late-T Dwarf Atmospheres
72 mins	Zhou	Heterogeneous Clouds in Directly-Imaged Planetary-Mass Companions