

Time	Monday, 16/09	Tuesday, 17/09	Wednesday, 18/09	Thursday, 19/09	Friday, 20/09	
	GM 4.13 @ Gorlaeus building Chair: Rob McGibbon	GM 4.13 @ Gorlaeus building Chair: Sophia Lillengeen	HL 414 @ Huygens building Chair: Josh Borrow	GM 4.13 @ Gorlaeus building	GM 4.13 @ Gorlaeus building	
9:00 - 9:20	Registration		Dinner recovery time			
9:20 - 9:40		FLAMINGO: Lensing, X-rays and Lightcones [Will McDonald]			Hands-on time + work in groups	Update on projects and papers - Part III [COLIBRE paper lead-authors: Claudia Lagos (online) Aaron Ludlow (online) Kate Harborne (online) Connor Bottrell (online) Matthew Frosst (online) Ruby Wright (online) Piyush Sharda Alejandro Benitez-Llambay (online) Matthieu Schaller]
9:40 - 10:00		Super sampled zoom in simulations of SIDM in massive galaxy clusters [David Harvey]		The unabridged satellite luminosity function of MW-like galaxies in Λ CDM: the contribution of "orphan" satellites [Isabel Santos-Santos]		
10:00- 10:20	Welcome + SWIFT status [Matthieu Schaller]	Impact of line of sight structure on weak lensing observables of cluster [Felix Vecchi]	Zoom Simulations of Dwarfs Galaxies in Diverse Cosmological Environments [Jemima Briggs]	Welcome [Matthieu Schaller]		
10:20 - 10:40		The impact of baryonic physics on weak gravitational lensing peaks in FLAMINGO [Jeger Broxterman]	Modified IGM Enrichment as a Constraint on the Mass-Loading of Outflows from Low-mass Galaxies [Christopher Rowe]	Introduction to COLIBRE - Part I [Joop Schaye]	Discussion	
10:40 - 11:00	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break	
11:00 - 11:20	The CHIMES non-equilibrium chemistry package: Modelling the chemistry of ions and molecules in simulations of galaxy formation [Alex Richings]	Cosmological implications of decaying dark matter [Willem Elbers]	Magnetic dynamos in SWIFT [Nikyta Shchutskyi]	Introduction to COLIBRE - Part II [Joop Schaye + developers: Evgenii Chaikin Alejandro Benitez-Llambay (online) Sylvia Ploekinger James Trayford (online) Matthieu Schaller Filip Husko]	Using SOAP + snapshots tutorial [Rob McGibbon]	
11:20 - 11:40	CHIMES-RT: Coupling Radiative Transfer with a comprehensive thermo-chemistry network in SWIFT [TK Chan]	From Gas to Stars: The SWIFT Sink Particles Scheme [Darwin Roduit]	REMIX SPH - improving mixing in SPH simulations by directly addressing key sources of error [Tom Sandnes]			
11:40 - 12:00	An atomic model for hydrogen recombination line modelling in RT simulations of galaxy formation [Yuan kang Liu]	A new model for GC formation, evolution, and disruption in COLIBRE [Jonathan Davies]	Radio emission in hydrodynamical simulations of galaxies [Filip Husko]		Discussion	Discussion & work in groups
12:00 - 12:20	Kiara-RT: cosmological radiation hydrodynamics simulations from cosmic dark to cosmic dawn [Zhen Xiang]	Kiara update [Romeel Dave]	Investigating Black Hole Populations in FLAMINGO [Emily Eve Costello]			
12:20 - 13:30	Lunch break	Lunch break	Lunch break	Lunch break		Lunch break
13:30 - 14:00						
14:00 - 14:20	COLIBRE update [Evgenii Chaikin]	GPU acceleration of SWIFT. Are we there yet? [Abouzied Nasar & Sarah Johnston]	Halo finding: A precision cosmology problem [Victor Forouhar]	Update on projects and papers - Part I [COLIBRE paper lead-authors: Evgenii Chaikin Kyle Oman (online) Filip Husko Victor Forouhar Kai Wang (online) Isabel Santos-Santos Alejandra Aguirre (online) Yannick Bahe Max Baker (online)]	Discussion & work in groups	
14:20 - 14:40	Cosmological simulations with a variable IMF [Anna Durrant]		The monofonIC - SWIFT - HBT - SOAP - swiftsimio simulation pipeline Hands-on session [Rob McGibbon & Victor Forouhar]			
14:40 - 15:00	Zoom-in simulations of the Local Group: tracing galactic chemical evolution within the periodic table [Sergey Khosperkov]					
15:00 - 15:30	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break	
15:30 - 15:50	The destructive formation of moons and rings [Jacob Kegerreis (online)]	Discussion: GPUs	First Light and Reionisation Epoch Simulations (FLARES): Learning the galaxy-halo connection [Maxwell Maltz]	Update on projects and papers - Part II [COLIBRE paper lead-authors: Alex Richings Oliver Thompson (online) Elliot Howatson (online) Maarten Baes Andrea Gebek Nikolaos Andreadis Jonathan Davies]	Concluding remarks [Joop Schaye & Matthieu Schaller]	
15:50 - 16:10	Proximity Zone Fossils around AGN in SWIFT-COLIBRE [Lars Klijn]	SWIFT 2 : Towards Exascale SPH With Task Based Parallelism [Mladen Ivkovic]	Zoom simulations in SWIFT: Balancing the Unbalanced [Will Roper]			
16:10 - 16:30	Work in groups	Ray Tracing & Power Spectra in swiftsimio [Josh Borrow]	Work in groups	Discussion		
16:30 - 16:50	"Call the SWIFT doctor"	Work in groups	"Call the SWIFT doctor"			
16:50 - 17:10						
17:10 - 17:30						
17:30 - 18:00	Welcome reception					
18:00 - 18:30						
18:30 - 20:00		Dinner @ De Bruine Boon				
20:00 - 21:00						

colour legend
Discussion or hands-on session
Lunch or coffee break
Talk 20 min - recommended 15 + 5
Other sessions

Zoom meeting link:

<https://universityleiden.zoom.us/j/67245368144?pwd=4FjBdMlspwRqqvpo0meI7nxYVCPcx.1>