









19 - 24 March 2023, Les Diablerets (Switzerland)

PROGRAM

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
	8:15 Welcome				
	8:30-9:15 JB L1	8:30-9:15 MF L1	8:30-9:15 JB L4	8:30-9:15 MF L4	8:30-9:15 MF L5
	9:15-10:00 CP L1	9:15-10:00 JB L3	9:15-10:00 CP L4	9:15-10:00 JB L5	9:15-10:00 CP L5
	Coffee & Posters	Coffee & Posters	Coffee & Posters	Coffee & Posters	Coffee & Posters
	10:30-11:15 JB L2	10:30-11:15 MF L2	10:30-11:15 MF L3	10:30-11:15 CP HO1	10:30-11:15 JB L6
	11:15-12:00 CP L2	11:15-12:00 CP L3	11:15-12:00 JB HO2	11:15-12:00 CP HO2	<i>Final remarks</i>
	Lunch*	Lunch*	Lunch*	Lunch*	
	13:30-15:00 JB HO1				
		Outdoor activities, networking, etc.	Outdoor activities, networking, etc.	Outdoor activities, networking, etc.	
	15:30- Social activities	17:00-17:30 Coffee & Posters	17:00-17:30 Coffee & Posters	17:00-17:30 Coffee & Posters	
	  	17:30-19:00 MF HO1	17:30-19:00 MF HO2	17:30-18:15 CP HO3	
				18:15-19:00 CP HO4	
18:00-21:00 Registration & Welcome reception +dinner 	Dinner	Dinner	Dinner	School dinner 	* Lunches are not covered

Updated on March 19, 2023

Prof. Jérémy Blaizot (JB)

Lectures:

JB L1 to L4: Structure formation, accretion flows, and galactic winds

JB L5 & L6: Emission from the CGM

Hands-on:

JB HO1 & HO2: Scattering experiments to interpret the observations of extended emission around galaxies (spectral shape and surface brightness profiles)

Prof. Céline Péroux (CP)

Lectures:

CP L1: Global quantities: cold gas (atomic and molecular), baryon cycle

CP L2: Basic of absorbers: Voigt profile fitting, number density, column density distribution

CP L3: Metal & Dust content: measuring metallicity, metal and dust mass densities, open issues

CP L4: Zooming on CGM: multi-phase observational signatures

CP L5: Future: emission, tomography, instruments

Hands-on:

CP HO1: General introduction to TNG/EAGLE/SIMBA API

CP HO2: Global quantities: global quantities of one halo and multiple haloes

CP HO3: Reproducing observables: surface density, emission

CP HO4: Predicting the baryon cycle: mass flow rates

Prof. Michele Fumagalli (MF)

Lectures:

MF L1: Observing the multiphase CGM

MF L2: Observing the CGM via hydrogen/helium emission

MF L3: Observing the CGM via metal emission

MF L4: Galaxies, the CGM, and IGM: putting it all together

MF L5: The role of environment on the CGM

Hands-on:

MF HO1: Modeling absorption line systems (with Cloudy)

MF HO2: Emission spectra in IFU (MUSE)

Day per day PROGRAM

Sunday – 19/03/2023

18:00 – 21:00 Registration and welcome reception + dinner

Monday – 20/03/2023

08:15 – 08:30 *Welcome speech by the SOC*

08:30 – 09:15 **JB L1** – Structure formation, accretion flows, and galactic winds

09:15 – 10:00 **CP L1** – Global quantities: cold gas (atomic and molecular), baryon cycle

10:00 – 10:30 *Coffee break & Posters*

10:30 – 11:15 **JB L2** – Structure formation, accretion flows, and galactic winds

11:15 – 12:00 **CP L2** – Basic of absorbers: Voigt profile fitting, number density, column density distribution

12:00 – 17:00 *Lunch*

13:30 – 15:00 **JB HO1** – Scattering experiments to interpret the observations of extended emission around galaxies (spectral shape and surface brightness profiles)

15:30 – 17:30 **Social activities**

Tuesday – 21/03/2023

08:30 – 09:15 **MF L1** – Observing the multiphase CGM

09:15 – 10:00 **JB L3** – Structure formation, accretion flows, and galactic winds

10:00 – 10:30 *Coffee break & Posters*

10:30 – 11:15 **MF L2** – Observing the CGM via hydrogen/helium emission

11:15 – 12:00 **CP L3** – Metal & Dust content: measuring metallicity, metal and dust mass densities, open issues

12:00 – 17:00 *Lunch / networking / outdoor activities*

17:00 – 17:30 *Coffee break & Posters*

17:30 – 19:00 **MF HO1** – Modeling absorption line systems (with Cloudy)

Wednesday – 22/03/2023

08:30 – 09:15	JB L4 – Structure formation, accretion flows, and galactic winds
09:15 – 10:00	CP L4 – Zooming on CGM: multi-phase observational signatures
10:00 – 10:30	<i>Coffee break & Posters</i>
10:30 – 11:15	MF L3 – Observing the CGM via metal emission
11:15 – 12:00	JB HO2 – Scattering experiments to interpret the observations of extended emission around galaxies (spectral shape and surface brightness profiles)
12:00 – 17:00	<i>Lunch / networking / outdoor activities</i>
17:00 – 17:30	<i>Coffee break & Posters</i>
17:30 – 19:00	MF HO2 – Emission spectra in IFU (MUSE)

Thursday – 23/03/2023

08:30 – 09:15	MF L4 – Galaxies, the CGM, and IGM: putting it all together
09:15 – 10:00	JB L5 – Emission from the CGM
10:00 – 10:30	<i>Coffee break & Posters</i>
10:30 – 11:15	CP HO1 – General introduction to TNG/EAGLE/SIMBA API
11:15 – 12:00	CP HO2 – Global quantities: global quantities of one halo and multiple haloes
12:00 – 17:00	<i>Lunch / networking / outdoor activities</i>
17:00 – 17:30	<i>Coffee break & Posters</i>
17:30 – 18:15	CP HO3 – Reproducing observables: surface density, emission
18:15 – 19:00	CP HO4 – Predicting the baryon cycle: mass flow rates
19:30 – 22:00	School dinner

Friday – 24/03/2023

08:30 – 09:15	MF L5 – The role of environment on the CGM
09:15 – 10:00	CP L5 – Future: emission, tomography, instruments
10:00 – 10:30	<i>Coffee break & Posters</i>
10:30 – 11:15	JB L6 – Emission from the CGM
10:00 – 10:30	<i>Final remarks</i>