

# Escape of Lyman radiation from galactic labyrinths 2023



Date: Tuesday, 18 April 2023

Morning/Afternoon	Afternoon/Evening
8:30	2:00
8:40	2:10
8:50	2:20
9:00	2:30
9:10	2:40
9:20	2:50
9:30	3:00
9:40	3:10
9:50	3:20
10:00	3:30
10:10	3:40
10:20	3:50
10:30	4:00
10:40	4:10
10:50	4:20
11:00	4:30
11:10	4:40
11:20	4:50
11:30	5:00
11:40	5:10
11:50	5:20
12:00	5:30
12:10	5:40
12:20	5:50
12:30	6:00
12:40	6:10
12:50	6:20
13:00	6:30
13:10	6:40
13:20	6:50
13:30	7:00
13:40	7:10
13:50	7:20
14:00	7:30
	7:40
	7:50
	8:00

**Welcome**  
 by the Director of OAC and by the SOC

**Fabrice Martins**  
 Lyman radiation production  
 in massive stars

**Andreas Sander**  
 Do we know the start of the labyrinth? The challenge  
 of determining ionizing fluxes from massive stars

**Coffee break**

**Marta Lorenzo:** The Missing Piece in the Reionization:  
 Quantifying the Ionizing Flux of Extremely Metal-poor  
 Massive Stars

**Uroš Mestrić:** Very massive stars - powerful factories of  
 Lyman continuum radiation

**Anne Verhamme**  
 Searching for the sources of cosmic reionisation

**Eloise Vitte:** Classifying Lyman-alpha emitting  
 galaxies with different spectral shapes in the MUSE  
 Extremely Deep Field

**Zhihui Li:** Extracting Properties of the Galactic  
 Environment via Ly $\alpha$  Radiative Transfer Modeling in a  
 Multiphase, Clumpy Medium

*Lunch*

**Jeremy Blaizot:** Simulating the many shapes of  
 the Lyman-alpha line

**Emma Giovanazzo:** Modelling LAEs in the Epoch of  
 Reionization with OBELISK: Exploring the Connection  
 Between Lyman- $\alpha$  Spectra and Lyman-Continuum Escape

**Silvia Almada Monter:** Radiative transfer  
 simulations of Lyman escape through anisotropic gas  
 distributions

**Coffee break**

**Andrea Ferrara**  
 What regulates the escape of ionizing radiation  
 from galaxies?

**Valentin Mauerhofer:** Predicting the LyC escape  
 from SPHINX20 galaxies using UV continuum and  
 absorption line properties

**Joe Lewis**  
 TBD

**Seok-Jun Chang:** The dynamic duo: Ly $\alpha$  & Mg II  
 as tracers of cold gas in CGM

**Ivan Kostyuk:** Investigation of Lyman continuum  
 escape of high redshift galaxies

**Louise Seeyave:** FLARE Simulations: the ionizing  
 properties of galaxies in the Epoch of Reionization

**Callum Witten:** JWST reveals galaxy mergers  
 driving Lyman-alpha emission at  $z > 7$

**Chris Byrohl:**  
 The Lyman-alpha cosmic web in TNG50

*Dinner*

Please note that we will have a welcome reception on Monday 17, starting at 6 p.m., followed by a dinner at ~8 p.m.

Review

Keynote presentation

Contributed talk

# Escape of Lyman radiation from galactic labyrinths 2023



Date: Wednesday, 19 April 2023

Morning/Afternoon	Afternoon/Evening
8:30	2:00
8:40	2:10
8:50	2:20
9:00	2:30
9:10	2:40
9:20	2:50
9:30	3:00
9:40	3:10
9:50	3:20
10:00	3:30
10:10	3:40
10:20	3:50
10:30	4:00
10:40	4:10
10:50	4:20
11:00	4:30
11:10	4:40
11:20	4:50
11:30	5:00
11:40	5:10
11:50	5:20
12:00	5:30
12:10	5:40
12:20	5:50
12:30	6:00
12:40	6:10
12:50	6:20
13:00	6:30
13:10	6:40
13:20	6:50
13:30	7:00
13:40	7:10
13:50	7:20
14:00	7:30
	7:40
	7:50
	8:00

Review

Keynote presentation

Contributed talk

# Escape of Lyman radiation from galactic labyrinths 2023



Date: *Thursday, 20 April 2023*

Morning/Afternoon	Afternoon/Evening
8:30	2:00
8:40	2:10
8:50	2:20
9:00	2:30
9:10	2:40
9:20	2:50
9:30	3:00
9:40	3:10
9:50	3:20
10:00	3:30
10:10	3:40
10:20	3:50
10:30	4:00
10:40	4:10
10:50	4:20
11:00	4:30
11:10	4:40
11:20	4:50
11:30	5:00
11:40	5:10
11:50	5:20
12:00	5:30
12:10	5:40
12:20	5:50
12:30	6:00
12:40	6:10
12:50	6:20
13:00	6:30
13:10	6:40
13:20	6:50
13:30	7:00
13:40	7:10
13:50	7:20
14:00	7:30
	7:40
	7:50
	8:00

**Anne Jaskot**  
A Low-Redshift Look at LyC Escape

**Peter Senchyna**  
Insights on feedback from the highest-ionization nebular emission in nearby galaxies

**Sophia Flury:** Exploring LyC Escape Scenarios with Stacked Spectra from the LzLCS

**Alexandra Le Reste:** The 21cm HI properties of local Ly $\alpha$ -emitting galaxies

**Coffee break**

**Enrique Pérez Montero**  
Using photoionization models in the softness diagram to estimate the escape fraction of ionizing photons

**Ricardo Amorin**  
Chemodynamics, feedback and the escape of Lyman radiation in green pea galaxies

**Adam Enders**  
LCE candidates from Hell

**Adele Plat:** Production and escape of Lyman continuum radiation in metal-poor star-forming galaxies

**Cristina Cabello:** Unveiling the escape of ionizing photons: new insights from a 2D spatially-resolved study

*Lunch*

**Göran Östlin**  
Dissecting the leakiest galaxy in the low-z universe

**Edmund Christian Herenz:** A 15 kpc outflow cone piercing through the halo of the blue compact dwarf galaxy SBS 0335-052E

**Antonio Arroyo Polonio:** Tracing Escape Channels for Lyman Continuum Photons in Extreme Emission Line Galaxies

**Coffee break**

**Anna Lena Schaible:** Relation between ionized gas kinematics and Ly $\alpha$  observables in ELARS

**Alberto Saldana-Lopez:** The ionizing properties of galaxies through the eyes of absorption line spectroscopy

**Axel Runnholm:** Creation and Evolution of Ly $\alpha$  halos - clues from low redshift observations

**Lena Komarova:** Haro 11: The Resolved Lyman Continuum Source and Cosmological Implications

**Timmy Ejdetjärn:** Modelling the merger of the blue compact galaxy Haro 11

**Jens Melinder:** The connection between Lyman continuum escape and Lyman alpha spatial distribution

**Discussion**

**Conference dinner**

Review

Keynote presentation

Contributed talk

# Escape of Lyman radiation from galactic labyrinths 2023



Date: Friday, 21 April 2023

Morning/Afternoon	Afternoon/Evening
8:30	2:00
8:40	2:10
8:50	2:20
9:00	2:30
9:10	2:40
9:20	2:50
9:30	3:00
9:40	3:10
9:50	3:20
10:00	3:30
10:10	3:40
10:20	3:50
10:30	4:00
10:40	4:10
10:50	4:20
11:00	4:30
11:10	4:40
11:20	4:50
11:30	5:00
11:40	5:10
11:50	5:20
12:00	5:30
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12:20	5:50
12:30	6:00
12:40	6:10
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13:00	6:30
13:10	6:40
13:20	6:50
13:30	7:00
13:40	7:10
13:50	7:20
14:00	7:30
	7:40
	7:50
	8:00

**Andrea Grazian:** Escaping from the Galactic Labyrinths through stellar Daedalus or following AGN Ariadne's wire like Theseus ?

**Santosh Harish:** Evidence for black holes in Green Pea galaxies based on variability and colors

**Maxime Trebitsch**  
Modelling the contribution of galaxies and AGN to the cosmic reionisation budget

Poster session

Coffee break

**Rogier Windhorst**  
A Review of Lyman Continuum Radiation with Hubble and the potential of Webb

**Chris Conselice**  
The First Galaxies with JWST and Reionization

**Jorryt Matthee**  
Galaxies as agents of cosmic reionization in the JWST era

**Martin Roth:** A glimpse on future observing facilities with relevance for Lyman escape studies

Lunch

**Brian Fleming:** The SPRITE Ionizing Radiation Escape Survey (SPIRES)

**Jose M. Vilchez:** A Deep Spectro-photometric Sample of Extreme Emission Line Galaxies with miniJPAS and MUSE HUDF surveys

**Ana Paulino-Afonso:** FLAEMING: are we able to find SC4K-like LAEs using AI?

**Lorenzo Napolitano:** Identifying Ly $\alpha$  emitters by learning from post Reionization-era galaxies in CANDELS survey

**Afonso Manuel Almeida do Vale**  
Boosting LAEs identification and characterisation

**Bruno Barbosa Cerqueira:** Can Deep Learning help us to unveil LAEs through broadband filters?

Discussion

Closing remarks

Conference closing reception

Review

Keynote presentation

Contributed talk