

## In Situ View of Galaxy Formation 2 — Workshop Program

v. 2022-07-21

### Duration in minutes: talk + questions

#### Sunday, July 24

From 16:00                      *Arrival & Registration*  
18:30                              *Welcome light meal*

#### Monday, July 25

### KINEMATICS AND STRUCTURE I

<i>Time</i>	<i>Duration</i>	<i>Speaker</i>		<i>Presentation</i>
<i>Chair: Dieter Lutz</i>				
9:00	10	LOC		Opening remarks
9:10	30+10	Reinhard Genzel	Keynote	Cosmic evolution of star-forming disk galaxies: what have we learned from observations?
9:50	30+10	Avishai Dekel	Keynote	Cosmic evolution of star-forming disk galaxies: what have we learned from theory?
10:30		<i>Coffee break</i>		
11:00	20+10	Annagrazia Puglisi	Talk	The dark matter content of star-forming galaxies at cosmic noon
11:30	20+10	Sedona Price	Talk	Deep resolved studies of galaxy kinematics and structures at the peak of cosmic star formation
12:00	20+10	Mark Swinbank	Talk	The resolved dynamics of starburst galaxies from ALMA and KMOS
12:30		<i>Lunch</i>		
<i>Chair: Mark Swinbank</i>				
14:00	20+10	Filippo Fraternali	Talk	Gas kinematics of disk galaxies
14:30	15+5	Daizhong Liu	Highlight	A 600 pc view of the strongly-lensed, massive main sequence galaxy J0901 at $z = 2.259$
14:50	20+10	J. Trevor Mendel	Talk	Dynamics, stellar populations, and mass budget of passive galaxies at $z > 1$
15:20		<i>Coffee break</i>		
15:50	20+10	Arjen van der Wel	Talk	LEGA-C: Stellar dynamics and stellar populations at $z \sim 1$
16:20	20+10	Shy Genel	Talk	Multi-dimensional scaling relations and DM-to-baryon ratios in simulated galaxies
16:50	20+10	Rhea-Silvia Remus	Talk	Galaxy dynamics, kinematics, and in-situ fractions: insight from the Magneticum Simulations
17:20		<i>End-of-day break</i>		
17:30		<i>Castle Tour</i>		
18:30		<i>Dinner</i>		Led by Herr Essl

## Tuesday, July 26

### KINEMATICS AND STRUCTURE II

<i>Time</i>	<i>Duration</i>	<i>Speaker</i>		<i>Presentation</i>
<i>Chair: Sedona Price</i>				
9:00	20+10	Françoise Combes	Talk	Rotation curves of disk galaxies at high redshift: influence of the tracer
9:30	20+10	Rachel Bezanson	Talk	Stellar Kinematics at Cosmic Twilight from the LEGA-C
10:00	20+10	Hannah Übler	Talk	Galaxy kinematics and dynamics at $z \sim 1$ from ionised gas and stars
10:30		<i>Coffee break</i>		
11:00	20+10	Joss Bland-Hawthorn	Talk	What the Local Group is teaching us about galaxy formation and evolution
11:30	20+10	Prashin Jethwa	Talk	Structure and dynamics of nearby galaxies
12:00	15+5	Claudia Pulsoni	Highlight	The structure of stellar halos in local early-type galaxies
12:30		<i>Lunch</i>		
<i>Chair: Tadayuki Kodama</i>				
14:00	20+10	Kenichi Tadaki	Talk	ALMA view of massive galaxies and supermassive blackholes
14:30	20+10	Deanne Fisher	Talk	Successes and failure of feedback theories in clumpy, turbulent disks
15:00	20+10	Omry Ginzburg	Talk	Evolution of turbulence in star forming galaxies: gravitational instability, feedback and accretion
15:30		<i>Coffee break</i>		
16:00	20+10	Esteban Jiménez	Talk	The drivers of gas turbulence in simulated galaxies
16:30	20+10	Thorsten Naab	Talk	The simulated high-redshift ISM: kinematics, outflows and emission lines
17:00	20+10	Max Gronke	Talk	How to model multiphase gases in astrophysics?
17:30		<i>End-of-day break</i>		
18:30		<i>Dinner</i>		

## Wednesday, July 27

### LINKING GALAXIES AND CGM: OUTFLOWS AND ACCRETION

<i>Time</i>	<i>Duration</i>	<i>Speaker</i>		<i>Presentation</i>
<i>Chair: Rychard Bouwens</i>				
9:00	20+10	Nicolas Bouché	Talk	The role of feedback on galaxy formation
9:30	20+10	Alice Concas	Talk	Ionized gas outflows at Cosmic Noon: a KLEVER perspective
10:00	20+10	Natascha M. Förster Schreiber	Talk	Outflows and inflows in $z \sim 1-3$ star-forming galaxies
10:30		<i>Coffee break</i>		
11:00	20+10	Chuck Steidel	Talk	The KBSS-KCWI Survey: Connecting Galaxies and their CGM at $z \sim 2-3$
11:30	20+10	Christopher Martin	Talk	Mapping Emission from the CGM and IGM
12:00	20+10	Claude-André Faucher-Giguère	Talk	Effects of CGM physics on the formation of thin disks and the burstiness of star formation
12:30		<i>Free afternoon</i>		
18:30		<i>Bavarian Buffet</i>		

## Thursday, July 28

### THE ROLE OF GAS AND THE EARLIEST PHASES OF GALAXY EVOLUTION

<i>Time</i>	<i>Duration</i>	<i>Speaker</i>		<i>Presentation</i>
<i>Chair: Françoise Combes</i>				
9:30	20+10	Linda J. Tacconi	Talk	Cosmic evolution of gas and star formation
10:00	20+10	Amélie Saintonge	Talk	Star formation efficiency scaling relations and the role of gas dynamics
10:30	20+10	Emily Wisnioski	Talk	Where chemistry meets kinematics: the role of mixing
11:00		<i>Coffee break</i>		
11:30	20+10	Ryan Sanders	Talk	Constraints on baryon cycling at cosmic noon from the metal and cold gas contents of galaxies
12:00	20+10	Alvio Renzini	Talk	Stellar metallicities at low and high redshift
12:30		<i>Lunch</i>		
<i>Chair: Joss Bland-Hawthorn</i>				
14:00	20+10	Stijn Wuyts	Talk	Population properties, scaling relations and galaxy growth since cosmic noon
14:30	20+10	Rychard Bouwens	Talk	An ALMA view of especially massive galaxies in the first billion years of the Universe
15:00	20+10	Joris Witstok	Talk	Dual constraints with ALMA: new [OIII]88 $\mu$ m and dust-continuum observations reveal the ISM conditions of luminous LBGs at $z\sim 7$
15:30		<i>Coffee break</i>		
16:10	20+10	Yuichi Harikane	Talk	Properties of $z>6$ galaxies probed with Subaru, ALMA, and JWST
16:40	20+10	Seiji Fujimoto	Talk	A Dive into Sub-kpc 3D Structures of [CII] and [OIII] at $z>6$ with ALMA
17:10	20+10	Rodrigo Herrera-Camus	Talk	Kpc view of the gas, dust, and stars of typical star-forming galaxies when the Universe was only $\sim 1$ billion years old
17:40		<i>End-of-day break</i>		
18:30		<i>Dinner</i>		

## Friday, July 29

### QUENCHING AND ENVIRONMENTAL PROCESSES

<i>Time</i>	<i>Duration</i>	<i>Speaker</i>		<i>Presentation</i>
<i>Chair: Thorsten Naab</i>				
9:00	20+10	Sandro Tacchella	Talk	The complex dance between morphology and quenching
9:30	20+10	Mariska Kriek	Talk	Stellar populations and metallicities of distant massive quiescent galaxies
10:00	20+10	Wren Suess	Talk	The molecular gas contents and star formation histories of recently-quenched galaxies
10:30		<i>Coffee break</i>		
11:00	20+10	Minju Lee	Talk	Galaxy properties and scaling relations in high-redshift protoclusters
11:30	20+10	Tadayuki Kodama	Talk	Remaining key questions on galaxy cluster formation and evolution
12:00	15	Dieter Lutz		Meeting wrap-up
12:30		<i>Lunch</i>		
13:30		<i>Departure from Ringberg</i>		