

# Virgo Consortium Meeting

Monday-Friday (14-18) Dec 2015

Lorentz Centre, Leiden

All talks are 10+5 mins. Please make sure you talk only for 10 mins to allow for interruptions and questions

## Monday

### Work in groups

## Tuesday

9:20-9:30

*Welcome*

### Galaxies

9:30-9:45

Till Sawala

Dwarf challenges

9:45-10:00

Laura Sales

Is the Baryonic Tully Fisher a challenge to LCDM?

10:00-10:15

Facundo Gomez

Vertical structure of MW-like disks in fully cosmological simulations

10:15-10:30

Robert Grand

Vertical disc heating in the Auriga simulations

10:30-11:00

*Coffee break*

11:00-11:15

Keri Dixon

Reionization of the Local Group and the Consequences

11:15-11:30

Matthieu Schaller

Dark disks

11:30-11:45

Federico Marinacci

Properties of HI discs in the Auriga simulations

11:45-12:00

Jorryt Matthee

The relation stellar mass - dark matter halo in Eagle

12:00-12:30

### Discussion

12:30-14:00

*Lunch break*

14:00-14:15

Alejandro Benitez

Local Group galaxies

14:15-14:30

Marius Cautun

Satellite alignments

14:30-14:45

James Trayford

Green Valley – Eagle project

14:45-15:00

Dylan Nelson

Accretion and the structure of halo gas

15:00-15:15

Kevin Schaal

High-redshift accretion shocks in Illustris

15:15-15:30

Sylvia Ploeckinger

Cooling tables for next generation of sims

15:30-16:00

*Coffee break*

16:00-16:15

Andrew Pontzen

Genetically modified galaxies: first results from baryonic runs

14:30-14:45

Chris Barber

Compact galaxies with anomalously large black holes in Eagle

16:30-17:30

### Discussion

17:30-19:00

*Wine & Cheese*

## Wednesday

9:00-9:15

Oliver Hahn

### Dark matter

Structure formation in the continuous limit

9:15-9:30

Raul Angulo

The formation of neutralino haloes

9:30-9:45

Andrew Robertson

SIDM

9:45-10:00

Aaron Ludlow

Universal halo relations

10:00-10:15

Mark Lovell

WDM with EAGLE

10:15-10:30

Sownak Bose

WDM with GALFORM

10:30-11:00

*Coffee break*

### Clusters

## Sheet1

11:00-11:15	Yannick Bahe	Update on Hydrangea
11:15-11:30	David Barnes	C-EAGLE
11:30-11:45	Scott Kay	MACSIS
11:45-12:00	Monique Henson	Cluster lensing
12:00-12:15	Rainer Weinberger	AGN feedback in cosmological simulations
12:15-12:30	Tiago Costa	AGN feedback in simulations
12:30-14:00	<i>Lunch break</i>	
14:00-14:15	Ian McCarthy	Introducing BAHAMAS
14:15-14:30	Ben Mummery	Neutrinos vs. feedback: effects on massive haloes
14:30-14:45	Jens Jasche	Inferring past and present cosmic structures from observations
14:45-15:30	<b>Discussion</b>	
15:30-16:00	<i>Coffee break</i>	
16:00-18:00	Break out time – work in groups e.g. Auriga project	
19:30-21:30	<i>Workshop Dinner</i>	
<b>Thursday</b>		
9:30-9:45	Christine Simpson	<b>ISM/CGM</b> Cosmic ray driven outflows in a realistic ISM
9:45-10:00	Ruediger Pakmor	Cosmic ray driven winds in galaxies
10:00-10:15	Thorsten Naab	Simulating molecular outflows from starburst disks
10:15-10:30	Joki Rosdahl	Comparison of SN feedback recipes in RAMSES
10:30-11:00	<i>Coffee break</i>	
11:00-11:15	Ben Oppenheimer	The CGM in EAGLE L* and Group Zooms <b>Technical developments and new physics</b>
11:15-11:30	Adrian Jenkins	ICs
11:30-11:45	Christoph Pfrommer	Cosmic ray physics in Arepo
11:45-12:00	Mathieu Schaller	SWIFT – latest developments
12:00-12:15	Antti Rantala	Regularized Post-Newtonian Dynamics in Gadget-3
12:15-12:30	Jiaxin Han	HBT
12:30-14:00	<i>Lunch break</i>	
14:00-14:30	Break out time – work in groups	
14:30-14:45	Andreas Pawlik	The Aurora RHD simulations of reionization
14:45-15:00	Andreas Schmidt	Update on SOPHISTICATE
15:00-15:15	Scott Clay	High-z galaxies and dust in L-galaxies
15:15-15:30	Wojtek Hellwing	The COCO database
15:30-16:00	<i>Coffee break</i>	
16:00-17:00	Break out time – work in groups	

## Friday

**Work in groups**