

Virgo Consortium Meeting

Monday-Wednesday 18th-20th Dec 2017

Monday 18th December

S1. 9:30 - 11:00 EAGLE (Joop Schaye)

Overview Joop Schaye (20')

Variable IMF runs - Chris Barber (10+5')

Dust-attenuated and dust emission fluxes - Peter Camps (10+5')

Galaxy mergers and the triggering of black hole growth - Stu McAlpine (10+5')

Cmass, environment and slow rotation - Claudia Lagos (10+5')

Discussion (10')

11:00 - 11:30 Coffee

S2. 11:30 - 13:00 - EAGLE/HYDRANGEA (Yannick Bahe)

Project overview - Yannick Bahé (7+3')

Luminosity functions - Andrea Negri (10+5')

Mass estimates of C-EAGLE clusters - Thomas Armitage (10+5')

Self-interacting dark matter simulations - Andrew Robertson (7+3')

Impact of subgrid physics on clusters - Francesca Pearce (7+3')

Protoclusters - Peter Thomas for Chris Lovell (10+5')

Discussion: new projects (all)

13:00 - 14:00 Lunch

S3. 14:00 - 15:30 Auriga (Volker Springel)

Intro to Auriga, status & some results - Rob Grand

r/s-process enrichment modelling - Freeke van de Voort

Dark disks - Matthieu Schaller

Fate of satellites in Auriga - Christine Simpson

Chaos and ex-situ material in the Milky Way disk - Facundo Gomez

Action-based modelling of the disk - Wilma Trick

Globular star cluster analysis plans - Timo Habelsma

15:30 - 16:00 Coffee/tea

S5. 16:00 - 17:30 Local Universe - I APOSTLE (Carlos Frenk/Till Sawala)

Inferring the galactic potential from gas - Kyle Oman (10+2')

Inferring the potential from stellar dynamics - Louie Strigari (10+2')

Satellites with two metallicity populations - Anna Genina (10+2')

The core-cusp problem - Alejandro Benitez (10+2')

The return to normality for the Milky Way - Marius Cautun (10+2')

The total satellite population of the Milky Way - Oliver Newton (10+2')

Warm Apostle - Wojteck Hellwing (10+2')

New projects - Azi Fattahi (10+2')

17:30 - 18:00 Discussion

Tuesday 19th December

S5. 9:30 - 11:00 Physics for small-scale structure (Joop Schaye/Volker Springel)

Radiative cooling - Sylvia Ploeckinger
Radiative feedback - Tiago Costa
New ISM feedback model in Arepo - Laura Sales
Non-ideal MHD - Federico Marinacci
Non-equilibrium chemistry - Alex Richings
Cosmic rays in ISM sims - Christine Simpson
Small-scale AGN jets - Rainer Weinberger
Lessons from SILCC - Thorsten Naab

11:00 - 11:30 Coffee

S6. 11:30 - 1:00 New techniques (Richard Bower)

Swift update - Matthieu Schaller (12+2')
Swift/Gizmo - Bert VanderBruke (12+2')
Gadget 4 update - Volker Springel (12+2')
MHD in Arepo, cosmic rays etc - Ruediger Pakmor (12+2')
High-order MHD - Thomas Guillet (12+2')
General discussion: what is missing - halo finding, rad. transfer, sub-grid?

13:00 - 14:00 Lunch

14:00 - 18:15 General talks Chair: Sylvia Ploeckinger

14:00-14:10	Adrien Thob	Morphology - kinematics in EAGLE
14:12-14:22	James Trayford	Galaxy morphology
14:24-14:34	Alejandro Benitez	Vertical structure of gaseous galaxy discs in CDM haloes
14:36-14:46	Ted Mackereth	The origin of diverse α -element abundances in galaxy discs
14:48-14:58	Camila Correa	Evolution of red sequence galaxies in EAGLE
15:00-15:10	Peter Mitchell	The baryon cycle in EAGLE
15:12-15:22	Tom Theuns	Reionization
15:24-15:34	Stefan Arridge	Effect of the cosmic thermal history on the Lyman-alpha forest

15:35- 16:00 Coffee/tea Chair: Thorsten Naab

16:12-16:22	Jonathan Davies	Origin/evolution of the X-ray luminous circumgalactic medium
16:24-16:34	Nastasha Wijers	X-ray column densities
16:36-16:46	Jack Richings	Dark subhalo destruction by baryons
16:48-16:58	Nir Mandelker	Filament accretion and formation of metal poor globular clusters
17:00-17:10	Stephen Pardy	The baryonic mass functions of low-mass groups in Auriga
17:12-17:22	Maria Celeste Artale	Dark matter response to galaxy assembly
17:24-17:34	Malin Renneby	Baryonic effects on galaxy galaxy lensing
17:36-17:46	Claudio dalla Vecchia	TBA
17:48-17:58	Andrew Griffin	AGN modelling in GALFORM
18:00-18:15	Ruth, Nick and Thor	New projects with APOSTLE and Auriga

14:00 - 18:00 Project planning sessions (parallel to general talks)

S7. 14:00 - 15:30 Hyper Millennium and semi-analytics (Simon White)

S8. 16:00 - 17:00 Local Universe - II (Constrained realisations) - (Till Sawala)

S9. 17:00 - 18:00 VVV (Adrian Jenkins)

19:30 Dinner at Garchinger Augustiner, Garching

Wednesday 20th December

9:30 - 11:00 Rapporteur reports (10' each)

Joop, Yannick, Volker, Carlos/Till, Joop/Volke, Richard, Simon, Adrian, Till

11:00 - 11:30 Coffee

11:30 - 13:00 General discussion (new projects, etc, including database)

11:30 - 11:45 Gerard Lemson

11:45 - 12:00 John Helly

12:00 - 1:00 New projects

13:00 - 14:00 Lunch

14:00 - 15:00 General discussion - II (New particle models, LSS with baryons, etc)

15:00 END