CHANCES General Meeting

Different section kinds:

CHANCES General

Invited

Cluster catalogues and target selection

CHANCES WGs

Data analysis

Works on specific targets

Monday 15 January
Chair AM: Paola Merluzzi

9:00-9:10 Welcome to the meeting (Yara Jaffé Paola Merluzzi)

Section: CHANCES General
9:10-9:30 (+10' discussion) **4MOST CHANCES survey status** (Chris Haines)
9:40:9:55 (+5' discussion) **Introduction to the survey structure** (Antonela Monachesi)

Section: Cluster catalogues and target selection
10:00-10:30 (+10' discussion) **X-ray catalogues for CHANCES** (Alexis Finoguenov)
                                Final CHANCES catalogues (Cristóbal Sifón)

10:40-11:00 (+10' discussion) **Low-z target selection** (Yara Jaffé)

11:10-11:40 Coffee break

11:40-12:00 (+10' discussion) **CHANCES-CGM** (Nicolas Tejos)
12:10-12:30 (+10' discussion) **Identifying potential cluster members for the CHANCES Evolution Sub-survey using NIR imaging** (Amrutha Belwadi M.)
12:40-12:55 (+5' discussion) **Full Probability Density Estimation of Photometric redshifts for Target selection in CHANCES** (Gabriel S. M. Teixeira)

13:00-14:00 Lunch break
Chair PM: Christobal Sifón

14:00-14:20 (+10' discussion) **The CHANCES survey description paper** (Chris Haines)

Section: CHANCES WGs
14:30-14:45 (+10' discussion) Updates from the Stellar-Masses WG (Maria Argudo-Fernández)

Section: Data analysis

14:55-15:10 (+5' discussion) **Photometric estimator of galaxy cluster masses** (Lucas Gabriel Silva)

15:15-15:45 Coffee break

15:45-16:05 (+10' discussion) **4MOST and CHANCES publication and data policies** (Antonela Monachesi)

16:15-17:00 General Discussion on the topics of the day

Tuesday 16 January
Chair AM: Ciria Lima Dias

Section: CHANCES WGs
9:00-9:15 (+5' discussion) **CHANCES simulation group: Future and prospect** (Diego Ignacio Pallero Astargo)
9:20-9:35 (+5' discussion) **Simulations of cluster connection to the large scale structure** (Rory Smith)
9:40-9:55 (+5' discussion) **Detailed mocks of Cluster's X-ray emission** (Facundo Ariel Gomez)
10:00-10:15 (+5' discussion) Filaments feeding CHANCES Clusters (Ulrike Kuchner)
10:20-11:00 Discussion on the future of the simulation group for CHANCES (Diego Ignacio Pallero Astargo et al.)

11:00-11:30 Coffee break

Section: Cluster surveys related to CHANCES
11:30-11:50 (+10' discussion) **4MOST Galaxy Cluster Survey** (Johan Comparat, remotely)
12:00-12:20 (+10' discussion) **WEAVE cluster survey** (Alfonso Aguerri, remotely)
12:30-12:50 (+10' discussion) **4HS** (Sean McGee, remotely)

13:00-14:00 Lunch break
Chair PM: Diego Pallero

Section: CHANCES WGs
14:00 -15:00 Spectroscopic WG updates and discussion (Ivan Lacerna et al.)

Section: Data analysis
15:00-15:15 (+5' discussion) **Deconvolving photometric redshifts: using machine learning to obtain the large-scale structure from photometric data** (Erik Vinicius Rodrigues de Lim)
15:20-15:35 (+5' discussion) **Automatic galaxy detection and measurement in large astronomical photometric surveys** (Rodrigo Facundo Haack)

15:40-16:10 Coffee break

16:10-16:30 (+5' discussion) **Unveiling Galaxy Morphology through an Unsupervised-Supervised Hybrid Approach** (Reinaldo Ramos de Carvalho, remotely)
16:35-16:50 (+5' discussion) **Citizen science project for CHANCES** (Jacob Crossett)

Section: CHANCES General
16:55-18:00 Discussion on science exploitation and articles planning/writing (Antonela Monachesi et al.)

Wednesday 17 January
Chair AM: Sergio Torres

Section: 4MOST Extragalactic surveys related to CHANCES
9:00-9:20 (+10' discussion) **4MOST Galaxy Evolution Survey WAVES** (Simon Driver, remotely)

Section: Works on specific targets
9:30-9:50 (+5' discussion) **S-PLUS and its synergies with CHANCES** (Claudia Mendes de Oliveira)
9:55-10:10 (+5' discussion) **The Fornax cluster in the context of S-PLUS + CHANCES** (Analía Smith-Castelli)
10:15-10:30 (+5' discussion) **A Photometric Investigation of the Hydra Supercluster of Galaxies** (Elismar Lösc)

10:35-11:05 Coffee break

11:05-11:20 (+5' discussion) **Testing the pre-processing scenario in Abell 1644** (Daniela Olave-Rojas)
11:25-11:40 (+5' discussion) **Disturbed galaxies in an interacting cluster: the case of A2670** (Franco Piraino)

12:00 Departure for the trip to La Silla.

<u>Thursday 18 January</u>
Chair AM: Hugo Mendez

Section: Works on specific targets
09:00-9:15 (+5' discussion) **Shapley supercluster: work in progress for CHANCES** (Paola Merluzzi)

Section: CHANCES General
9:20-10:00 Discussion on synergies with other surveys/data-sets/simulations (Cristóbal Sifon et al.)

Section: Works on specific targets
10:00-10:15 (+5' discussion) **Target selection in the Antlia Cluster from DEcam data** (Juan Pablo Calder

10:30-11:00 Coffee break

Section: 4MOST
11:00-11:20 (+10' discussion) **Overall 4MOST schedule and 4MOST Science Policy** (John Loveday, remotely)
11:30-11:50 (+10' discussion) **4MOST SV** (Dimitri Gadotti, remotely)

Section: CHANCES WGs
12:00-12:15 Science and Pipeline Validation (SPV): what *is* this? (Emanuela Pompei)
12:15-13:00 Discussion on the CHANCES SV experiments

13:00-14:00 Lunch break

Section: CHANCES General
14:00-16:00 Parallel WGs discussing/analysing different aspects of the survey.
16:00-17:00 The WGs report to the colleagues

<u>Friday 19 January</u>
Chairs: Chris & Yara

Section: CHANCES General
9:00-9:30 Challenges and needs of CHANCES (all)
9:30-10:00 Future Proposals: funding and data (all)

10:00-10:30 Coffee break

10:30-11:00 Final Remarks (Chris Haines Yara Jaffé)