

Middle-East and Africa School on Large Galaxy Surveys for Cosmology

ME&Af. School February 18-23, 2023

Arrival Friday, Feb. 17, Excursion or Departure Thursday, Feb. 23

Saturday (18 February) Opening Ceremony

- 07:30-09:00 **Breakfast & Logistics** (Prof. Ashraf Shaker - LOC Chair)
09:00-11:00 Registration
11:00-12:00 Opening Ceremony (LOC, SOC , NIARG President)
12:00-12:30 **Break**
12:30-13:30 Astronomy in Egypt -- Prof. Ashraf Shaker
13:30 – 14:30 Properties of galaxies -- Prof. Ashraf Shaker
14:30-16:00 **Lunch**
16:00-17:00 Galaxy redshift surveys -- Prof. Francisco Prada
17:00-18:00 Galaxy - dark matter halo connection I -- Dr. Amr El-Zant
18:00-19:00 Large- Scale Structure of the Universe I - Dr. Anatoly Klypin
19:00-19:30 Uchuu - Big Data tutorial - Dr. Chi An Dong Páez
19:30-20:30 **Dinner**
20:30-22:00 Student Exercises

Sunday (19 February)

- 08:00-09:00 **Breakfast**
09:00-10:00 N-body cosmological simulations I – Prof. Tomoaki , Ishiyama
10:00-10:30 Spark tutorial -- Dr. Javier Cacheiro
11:00-11:30 **Break**
11:30-12:00 Introduction to Supernova Cosmology—Dr. Eulalia Gallego-Cano
12:00 – 2:30 Student Exercises
14:30-16:00 **Lunch**
16:00-17:00 Large-Scale Structure of the Universe II –Prof. Anatoly Klypin
18:00-20:30 Student Exercises
20:30-21:30 **Dinner**
20:30-22:30 Observations using Kottamia Telescope

Monday (20 February)

- 07:30-09:00 **Breakfast**
- 09:00-10:00 Galaxy - dark matter halo connection II – Dr. Amr El-Zant
- 10:00-11:00 Theory of cosmological density fields I- Prof. Amare Abebe
- 11:00-11:30 **Break**
- 11:30-12:30 Galaxy Clusters I - Dr. Ali Takey
- 12:30 - 13:30 Galaxy Clusters II – Dr. Mohamed Elhashash
- 13:30 - 14:30 Student Exercises
- 14:30-16:00 **Lunch**
- 16:00-17:00 Galaxy Clusters II – Dr. Mohamed Elhashash
- 17:00-18:30 BOSS simulated galaxies – Dr. Julia Ereza
- 18:30-19:30 **Dinner**
- 19:30-22:00 Student Exercises

Tuesday (21 February)

- 07:30-09:00 **Breakfast**
- 09:00-10:00 Theory of cosmological density fields II – Prof. Amare Abebe
- 10:00-11:00 N-body cosmological simulations II – Prof. Tomoaki , Ishiyama
- 11:00-11:30 **Break**
- 11:30-12:30 General Relativity – Prof. Fady Morcos
- 12:30-13:30 Galaxy evolution—Prof. Enrique Pérez
- 13:30-14:30 Q&A session
- 14:30-16:00 **Lunch**
- 16:00-18:30 Practical session
- 18:30-20:00 **Dinner**
- 20:00-23:00 Practical session

Wednesday (22 February)

- 07:30-09:00 **Breakfast**
- 09:00-11:00 Student presentations
- 11:00-11:30 **Break**
- 11:30-14:00 Student presentations
- 14:00-15:30 **Lunch**
- 15:30-18:00 Q&A session- Discussion with Students
- 16:00-18:00 Closing Ceremony
- 18:00-19:00 **Dinner**

Thursday (23 February)

- 07:30-09:00 **Breakfast**
- 09:00-- Excursion to Pyramids Or Departure