

Round-table agenda

• 16:30 – 17:15 GTC-CTA scientific synergies

Chair:

Armando Gil de Paz (UCM-IPARCOS)

Participants:

Tarek Hassan (DESY)

Vik Dhillon (University of Sheffield)

Patricia Sánchez Blázquez (UCM-IPARCOS)

Simona Paiano (INAF)

Miguel A. Sánchez-Conde (UAM IFT)

Questions to discuss:

- (1) What are the prospects for direct optical measurements with CTA?
- (2) How efficient are and would 10m & 30m telescopes be in measuring these and other future transients? What do you expect to be the role of LSST in all this?
- (3) What could these measurements of stellar radii provide in the field of stellar and, consequently, on galaxy evolution?
- (4) What kind of techniques and facilities could facilitate identifying the distances to UI CTA sources?
- (5) How can the combined use of GTC and CTA provide further clues on the nature and structure of dark matter?
- (6) How could the CTA & GTC instrumentation adapt for the needs of some of these scientific synergies?
- (7) Is there a missing link in between GTC and CTA? Do we need to get more facilities on board (e.g. smaller telescopes, radio data = FRBs)?
- (8) What is the importance of cosmic rays generated in many of these CTA sources as star formation regulators?
- (9) Could CTA ultimately pose a challenge to the AGN Unified model? How could CTA+GTC intensity interferometry (alone or combined with EHT results) contribute in that regard?
- (10) Besides the analysis of the EBL (Domínguez et al.) and the study of dark matter, do you think the combined use of CTA & GTC could provide further constraints on fundamental cosmological parameters?