



WST

**the Wide-field
Spectroscopic
Telescope**

Surveying the Universe in the 2040's and beyond

Italian Workshop
in memory of Bianca Garilli

Ground-based facilities

Completion of the construction and commissioning of the ESO Extremely Large Telescope (ELT) and its first generation instruments, as well as that of the Square Kilometre Array (SKA) Phase 1 and its Regional Centres are of key strategic importance. Amongst new ground-based infrastructure projects requiring major funding decisions, three emerge as priorities; two of those (CTA, EST) have unique capabilities and receive strong support from their respective communities, with the third (wide-field spectroscopic facility for a 8-10m class telescope) being a more general facility with applications from planetary systems to cosmology.

- First, the **Cherenkov Telescope Array (CTA)** is an array of telescopes located across two sites on both hemispheres to detect very high energy gamma rays from black holes and other extreme phenomena. As the first true large-scale observatory targeting these energies, it is expected to lead to breakthroughs in our understanding of the origins and production of non-thermal particles in the Universe. The construction of CTA is expected to start soon and the recommendation is to bring it to completion in a timely fashion.

The other two recommendations correspond to two additional, equally ranked, priorities:

- The **European Solar Telescope (EST)**, a 4m solar telescope to be built in the Canary Islands with first light expected by 2030. The EST will significantly increase our understanding of the solar magnetic field and its relations with the heliosphere and the Earth. Its completion and scientific exploitation in synergy with the US-based DKIST is a priority.
- A **general-purpose, wide-field, high multiplex spectroscopic facility**, for a telescope of the 8-10m class. Such a facility will enable a broad range of science investigations and help capitalise on other large investments by providing follow-up capabilities for facilities such as JWST, VRO and Euclid.



European Solar Telescope (EST)

Credit:
Gabriel Pérez (IAC)

Cherenkov Telescope Array (CTA)

Credit:
ESO



Program

< Mon 10/03 Tue 11/03 Wed 12/03 All days

Session legend

Print PDF Full screen Detailed view Filter

Introduction and Welcome

The Wide-field Spectroscopic Telescope

The landscape

14:00	Introduction and Welcome <i>Auditorium Nazionale "Ernesto Capocci", INAF - Osservatorio Astronomico di Capodimonte</i>	<i>Pietro Schipani</i> 14:00 - 14:15
	In memory of Bianca Garilli <i>Auditorium Nazionale "Ernesto Capocci", INAF - Osservatorio Astronomico di Capodimonte</i>	<i>Adriana Gargiulo et al.</i> 14:15 - 14:45
	WST: context and Italian participation <i>Auditorium Nazionale "Ernesto Capocci", INAF - Osservatorio Astronomico di Capodimonte</i>	<i>Dr Maria Sofia Randich</i> 14:45 - 15:05
15:00	WST: Status and plans <i>Auditorium Nazionale "Ernesto Capocci", INAF - Osservatorio Astronomico di Capodimonte</i>	<i>Roland Bacon</i> 15:05 - 15:25
	The WST science drivers: transformational science in the 2040s <i>Auditorium Nazionale "Ernesto Capocci", INAF - Osservatorio Astronomico di Capodimonte</i>	<i>Vincenzo Mainieri</i> 15:25 - 15:45
	Expanding Horizons: Transforming Astronomy in the 2040s <i>Auditorium Nazionale "Ernesto Capocci", INAF - Osservatorio Astronomico di Capodimonte</i>	<i>Mariya Lyubanova</i> 15:45 - 16:05
16:00	Coffee Break <i>Auditorium Nazionale "Ernesto Capocci", INAF - Osservatorio Astronomico di Capodimonte</i>	16:05 - 16:35
	INAF Landscape <i>Auditorium Nazionale "Ernesto Capocci", INAF - Osservatorio Astronomico di Capodimonte</i>	<i>Isabella Pagano</i> 16:35 - 17:00
17:00	The Scientific Landscape in the 2040+ <i>Auditorium Nazionale "Ernesto Capocci", INAF - Osservatorio Astronomico di Capodimonte</i>	<i>Marcella Marconi</i> 17:00 - 17:25
	Are there valuable synergies between CTAO and WST? <i>Auditorium Nazionale "Ernesto Capocci", INAF - Osservatorio Astronomico di Capodimonte</i>	<i>Roberta Zanin</i> 17:25 - 17:45
	The SKA Observatory: perspectives and synergies with the WST <i>Auditorium Nazionale "Ernesto Capocci", INAF - Osservatorio Astronomico di Capodimonte</i>	<i>Dr Isabella Prandoni</i> 17:45 - 18:05
18:00		



Time for speakers:

25 min = 20 + 5 Q&A

20 min = 17 + 3 Q&A

15 min = 13 + 2 Q&A

5 min = 5 + 0 Q&A

Bus shuttle

10 March

From the Observatory to downtown

- Porta Grande - Bosco di Capodimonte h 7:00 pm
- Via Capodimonte - Grand Hotel Capodimonte h 7:05 pm
- MANN - Museo Archeologico Nazionale h 7:15 pm
- Piazza Matteotti h 7:30 pm

11 March

- From downtown to the Observatory

- Piazza Matteotti h 8:00 am
- MANN - Museo Archeologico Nazionale h 8:15 am
- Via Capodimonte - Grand Hotel Capodimonte h 8:25 am
- Porta Grande - Bosco di Capodimonte h 8:30 am

- From the Observatory to the restaurant Regina Margherita via Partenope h 7:00 pm

- From the restaurant to the Observatory h 10:30 pm with the following stops:

- Piazza Matteotti
- MANN - Museo Archeologico Nazionale
- Via Capodimonte - Grand Hotel Capodimonte
- Porta Grande - Bosco di Capodimonte

12 March

From downtown to the Observatory

- Piazza Matteotti h 8:00 am
- MANN - Museo Archeologico Nazionale h 8:15 am
- Via Capodimonte - Grand Hotel Capodimonte h 8:25 am
- Porta Grande - Bosco di Capodimonte h 8:30 am





