

# **International School on Technologies in Gravitational Waves Detection 2026**

## **Report of Contributions**

Contribution ID: **1**

Type: **not specified**

## Theoretical aspects of GW

*Wednesday 20 May 2026 14:00 (1h 50m)*

**Author:** Dr CELLA, Giancarlo (INFN Pisa)

**Presenter:** Dr CELLA, Giancarlo (INFN Pisa)

**Session Classification:** GW theoretical aspects and principia

Contribution ID: 2

Type: **not specified**

## GW detectors principia

*Wednesday 20 May 2026 16:05 (1h 50m)*

**Author:** GEMME, Gianluca (INFN)

**Presenter:** GEMME, Gianluca (INFN)

**Session Classification:** GW theoretical aspects and principia

Contribution ID: 3

Type: **not specified**

## Theoretical aspects of GW

*Thursday 21 May 2026 09:00 (1h 50m)*

**Author:** Dr CELLA, Giancarlo (INFN Pisa)

**Presenter:** Dr CELLA, Giancarlo (INFN Pisa)

**Session Classification:** GW theoretical aspects and principia

Contribution ID: 4

Type: **not specified**

## GW detectors principia

*Thursday 21 May 2026 11:05 (1h 50m)*

**Author:** GEMME, Gianluca (INFN)

**Presenter:** GEMME, Gianluca (INFN)

**Session Classification:** GW theoretical aspects and principia

Contribution ID: 5

Type: **not specified**

## 3G observatories and ET

*Thursday 21 May 2026 14:30 (1h 50m)*

**Session Classification:** 3G GW Observatories

Contribution ID: 6

Type: **not specified**

## Space-based detectors: sensitivity

*Thursday 21 May 2026 16:35 (1h 50m)*

**Session Classification:** 3G GW Observatories

Contribution ID: 7

Type: **not specified**

## Optical configuration

*Friday 22 May 2026 09:00 (1h 50m)*

**Author:** PERRECA, Antonio

**Presenter:** PERRECA, Antonio

**Session Classification:** Optics & interferometry

Contribution ID: 8

Type: **not specified**

## Seismic filtering

*Friday 22 May 2026 11:05 (1h 50m)*

**Presenter:** CHESSA, Piero (University of Perugia)

**Session Classification:** Interferometer test masses

Contribution ID: 9

Type: **not specified**

## Coatings & Materials

*Friday 22 May 2026 14:30 (1h 50m)*

**Author:** MAGNOZZI, Michele

**Presenter:** MAGNOZZI, Michele

**Session Classification:** Interferometer test masses

Contribution ID: **10**

Type: **not specified**

## Space interferometry

*Friday 22 May 2026 16:35 (1h 50m)*

**Session Classification:** Optics & interferometry

Contribution ID: **11**

Type: **not specified**

## Optical configuration

*Saturday 23 May 2026 09:00 (1h 50m)*

**Author:** PERRECA, Antonio

**Presenter:** PERRECA, Antonio

**Session Classification:** Optics & interferometry

Contribution ID: **12**

Type: **not specified**

## Seismic filtering

*Saturday 23 May 2026 11:05 (1h 50m)*

**Presenter:** CHESSA, Piero (University of Perugia)

**Session Classification:** Interferometer test masses

Contribution ID: **13**

Type: **not specified**

## Laser Technologies

*Monday 25 May 2026 09:00 (1h 50m)*

**Presenter:** GALIMBERTI, Marco

**Session Classification:** Optics & interferometry

Contribution ID: **14**

Type: **not specified**

## Stray light

*Monday 25 May 2026 11:05 (1h 50m)*

**Author:** Dr CONTI, Livia (INFN)

**Presenter:** Dr CONTI, Livia (INFN)

**Session Classification:** Optics & interferometry

Contribution ID: 15

Type: **not specified**

## Thermal compensation

*Monday 25 May 2026 14:30 (1h 50m)*

**Author:** NARDECCHIA, Ilaria

**Presenter:** NARDECCHIA, Ilaria

**Session Classification:** Interferometer test masses

Contribution ID: **16**

Type: **not specified**

## **Noise control in a space-based observatory**

*Monday 25 May 2026 16:35 (1h 50m)*

**Session Classification:** Noise control

Contribution ID: 17

Type: **not specified**

## Squeezing

*Tuesday 26 May 2026 09:00 (1h 50m)*

**Author:** SORRENTINO, Fiodor

**Presenter:** SORRENTINO, Fiodor

**Session Classification:** Optics & interferometry

Contribution ID: **18**

Type: **not specified**

## Stray light

*Tuesday 26 May 2026 11:05 (1h 50m)*

**Author:** Dr CONTI, Livia (INFN)

**Presenter:** Dr CONTI, Livia (INFN)

**Session Classification:** Optics & interferometry

Contribution ID: **19**

Type: **not specified**

## Data analysis methodologies

*Tuesday 26 May 2026 14:30 (1h 50m)*

**Author:** PANNARALE, Francesco (Sapienza –University of Rome & INFN Roma)

**Presenter:** PANNARALE, Francesco (Sapienza –University of Rome & INFN Roma)

**Session Classification:** Data Analysis

Contribution ID: 20

Type: **not specified**

## Data Analysis for space-based detectors

*Tuesday 26 May 2026 16:35 (1h 50m)*

**Session Classification:** Data Analysis

Contribution ID: 21

Type: **not specified**

## Data analysis methodologies

*Wednesday 27 May 2026 09:00 (1h 50m)*

**Author:** PANNARALE, Francesco (Sapienza –University of Rome & INFN Roma)

**Presenter:** PANNARALE, Francesco (Sapienza –University of Rome & INFN Roma)

**Session Classification:** Data Analysis

Contribution ID: 22

Type: **not specified**

## Elements of cryogenics in GW detectors

*Wednesday 27 May 2026 11:05 (1h 50m)*

**Presenter:** MAJORANA, Ettore

**Session Classification:** Interferometer test masses

Contribution ID: 23

Type: **not specified**

## **Environmental noise and impact on the detector**

*Wednesday 27 May 2026 14:30 (1h 50m)*

**Presenter:** DE ROSA, Rosario

**Session Classification:** Noise control

Contribution ID: 24

Type: **not specified**

## Scientific achievements of the current detectors

*Wednesday 27 May 2026 16:35 (1h 50m)*

**Presenter:** PATRICELLI, Barbara (University of Pisa and INFN - Pisa)

**Session Classification:** 2G detectors achievements