

# **Summer school: Les Houches on Dark Universe**

## **Report of Contributions**

Contribution ID: 2

Type: **not specified**

## Long lecture 1

*Monday, July 7, 2025 4:00 PM (1h 30m)*

**Presenter:** FERREIRA, Pedro

**Session Classification:** Lecture: The standard model of cosmology: a critique of its status

Contribution ID: 3

Type: **not specified**

## Long lecture 2

*Monday, July 7, 2025 6:00 PM (1h 30m)*

**Presenter:** FERREIRA, Pedro

**Session Classification:** Lecture: The standard model of cosmology: a critique of its status

Contribution ID: 4

Type: **not specified**

## Long lecture 3

*Tuesday, July 8, 2025 9:00 AM (1h 30m)*

**Presenter:** FERREIRA, Pedro

**Session Classification:** Lecture: The standard model of cosmology: a critique of its status

Contribution ID: 5

Type: **not specified**

## Long lecture 4

*Tuesday, July 8, 2025 2:00 PM (1h 30m)*

**Presenter:** FERREIRA, Pedro

**Session Classification:** Lecture: The standard model of cosmology: a critique of its status

Contribution ID: 6

Type: **not specified**

## Long lecture 1

*Tuesday, July 8, 2025 11:00 AM (1h 30m)*

**Presenter:** BURGESS, Cliff

**Session Classification:** Lecture: Dark energy-vs-high energy physics

Contribution ID: 7

Type: **not specified**

## Long lecture 2

*Tuesday, July 8, 2025 4:00 PM (1h 30m)*

**Presenter:** BURGESS, Cliff

**Session Classification:** Lecture: Dark energy-vs-high energy physics

Contribution ID: 8

Type: **not specified**

## Long lecture 3

*Wednesday, July 9, 2025 11:00 AM (1h 30m)*

**Presenter:** BURGESS, Cliff

**Session Classification:** Lecture: Dark energy-vs-high energy physics



Contribution ID: 9

Type: **not specified**

## Long lecture 4

*Thursday, July 10, 2025 11:00 AM (1h 30m)*

**Presenter:** BURGESS, Cliff

**Session Classification:** Lecture: Dark energy-vs-high energy physics

Contribution ID: **10**

Type: **not specified**

## Long lecture 1

*Thursday, July 10, 2025 2:00 PM (1h 30m)*

**Presenter:** SEMELIN, Benoit

**Session Classification:** Lecture: Physics of the dark ages

Contribution ID: **11**

Type: **not specified**

## Long lecture 2

*Friday, July 11, 2025 9:00 AM (1h 30m)*

**Presenter:** SEMELIN, Benoit

**Session Classification:** Lecture: Physics of the dark ages

Contribution ID: **12**

Type: **not specified**

## Long lecture 3

*Monday, July 14, 2025 9:00 AM (1h 30m)*

**Presenter:** SEMELIN, Benoit

**Session Classification:** Lecture: Physics of the dark ages

Contribution ID: **13**

Type: **not specified**

## Short lecture

*Friday, July 11, 2025 11:00 AM (1h 30m)*

**Presenter:** AUBERT, Dominique

**Session Classification:** Lecture: Physics of the dark ages

Contribution ID: **14**

Type: **not specified**

## Long lecture 1

*Monday, July 21, 2025 9:00 AM (1h 30m)*

**Presenter:** LESGOURGUES, Julien

**Session Classification:** Lecture: Advanced CMB physics

Contribution ID: 15

Type: **not specified**

## Long lecture 2

*Tuesday, July 22, 2025 9:00 AM (1h 30m)*

**Presenter:** LESGOURGUES, Julien

**Session Classification:** Lecture: Advanced CMB physics

Contribution ID: **16**

Type: **not specified**

## Long lecture 3

*Wednesday, July 23, 2025 9:00 AM (1h 30m)*

**Presenter:** LESGOURGUES, Julien

**Session Classification:** Lecture: Advanced CMB physics



Contribution ID: 17

Type: **not specified**

## Long lecture 4

*Thursday, July 24, 2025 9:00 AM (1h 30m)*

**Presenter:** LESGOURGUES, Julien

**Session Classification:** Lecture: Advanced CMB physics

Contribution ID: **18**

Type: **not specified**

## Long lecture 5

*Friday, July 25, 2025 9:00 AM (1h 30m)*

**Presenter:** LESGOURGUES, Julien

**Session Classification:** Lecture: Advanced CMB physics

Contribution ID: **19**

Type: **not specified**

## Long lecture 1

*Monday, July 21, 2025 11:00 AM (1h 30m)*

**Presenter:** UHLEMANN, Cora

**Session Classification:** Lecture: Large scale structures of the universe: physics, phenomenology, statistics

Contribution ID: 20

Type: **not specified**

## Long lecture 2

*Tuesday, July 22, 2025 11:00 AM (1h 30m)*

**Presenter:** UHLEMANN, Cora

**Session Classification:** Lecture: Large scale structures of the universe: physics, phenomenology, statistics

Contribution ID: **21**

Type: **not specified**

## Long lecture 3

*Wednesday, July 23, 2025 11:00 AM (1h 30m)*

**Presenter:** UHLEMANN, Cora

**Session Classification:** Lecture: Large scale structures of the universe: physics, phenomenology, statistics

Contribution ID: 22

Type: **not specified**

## Long lecture 4

*Thursday, July 24, 2025 11:00 AM (1h 30m)*

**Presenter:** UHLEMANN, Cora

**Session Classification:** Lecture: Large scale structures of the universe: physics, phenomenology, statistics

Contribution ID: 23

Type: **not specified**

## Short course

*Tuesday, July 22, 2025 2:00 PM (1h 30m)*

**Presenter:** GALLI, Silvia (IAP)

**Session Classification:** Lecture: Advanced CMB physics

Contribution ID: 24

Type: **not specified**

## Short course

*Wednesday, July 23, 2025 2:00 PM (1h 30m)*

**Presenter:** PITROU, Cyril

**Session Classification:** Lecture: Advanced CMB physics



Contribution ID: 25

Type: **not specified**

## Short course

*Thursday, July 24, 2025 2:00 PM (1h 30m)*

**Presenter:** LAIGLE, Clotilde

**Session Classification:** Lecture: Large scale structures of the universe: physics, phenomenology, statistics

Contribution ID: 26

Type: **not specified**

## Short course

*Friday, July 25, 2025 2:00 PM (1h 30m)*

**Presenter:** KRAUSE, Elisabeth

**Session Classification:** Lecture: Large scale structures of the universe: physics, phenomenology, statistics

Contribution ID: 27

Type: **not specified**

## Long lecture 1

*Monday, July 28, 2025 9:00 AM (1h 30m)*

**Presenter:** POULIN, Vivian

**Session Classification:** Lecture: Standard model tensions

Contribution ID: **28**

Type: **not specified**

## Long lecture 2

*Tuesday, July 29, 2025 2:00 PM (1h 30m)*

**Presenter:** POULIN, Vivian

**Session Classification:** Lecture: Standard model tensions

Contribution ID: 29

Type: **not specified**

## Long lecture 1

*Monday, July 28, 2025 2:00 PM (1h 30m)*

**Presenter:** DI VALENTINO, Eleonora

**Session Classification:** Lecture: Standard model tensions

Contribution ID: **30**

Type: **not specified**

## Long lecture 2

*Tuesday, July 29, 2025 9:00 AM (1h 30m)*

**Presenter:** DI VALENTINO, Eleonora

**Session Classification:** Lecture: Standard model tensions

Contribution ID: **31**

Type: **not specified**

## Short course

*Monday, July 28, 2025 11:00 AM (1h 30m)*

**Presenter:** MORADINZEHAD, Azadeh

**Session Classification:** Lecture: Large scale structures of the universe: physics, phenomenology, statistics

Contribution ID: **32**

Type: **not specified**

## Short course

*Tuesday, July 29, 2025 11:00 AM (1h 30m)*

**Presenter:** LECLERCQ, Florent (Institut d'Astrophysique de Paris)

**Session Classification:** Lecture: Large scale structures of the universe: physics, phenomenology, statistics



Contribution ID: **33**

Type: **not specified**

## Short course

*Wednesday, July 30, 2025 11:00 AM (1h 30m)*

**Presenter:** LANUSSE, Francois (CNRS)

**Session Classification:** Lecture: Large scale structures of the universe: physics, phenomenology, statistics

Contribution ID: 34

Type: **not specified**

## Long lecture 1

*Wednesday, July 30, 2025 9:00 AM (1h 30m)*

**Presenter:** VAN WAERBEKE, Ludovic

**Session Classification:** Lecture: Dark matter alternatives

Contribution ID: 35

Type: **not specified**

## Long lecture 2

*Thursday, July 31, 2025 9:00 AM (1h 30m)*

**Presenter:** VAN WAERBEKE, Ludovic

**Session Classification:** Lecture: Dark matter alternatives

Contribution ID: **36**

Type: **not specified**

## Short course

*Thursday, July 31, 2025 11:00 AM (1h 30m)*

**Presenter:** FAMAÉY, Benoit

**Session Classification:** Lecture: Dark matter alternatives

Contribution ID: 37

Type: **not specified**

## Short course

*Wednesday, July 30, 2025 2:00 PM (1h 30m)*

**Presenter:** ARMENGAUD, Eric

**Session Classification:** Lecture: Dark matter alternatives

Contribution ID: **38**

Type: **not specified**

## Short course

*Thursday, July 31, 2025 2:00 PM (1h 30m)*

**Presenter:** CORREA, Camila

**Session Classification:** Lecture: Dark matter alternatives

Contribution ID: **39**

Type: **not specified**

## Short course

*Monday, July 21, 2025 2:00 PM (1h 30m)*

**Presenter:** AGHANIM, Nabila

**Session Classification:** Lecture: Advanced CMB physics

Contribution ID: 40

Type: **not specified**

## Long lecture 1

*Tuesday, July 15, 2025 9:00 AM (1h 30m)*

**Presenter:** TEYSSIER, Romain

**Session Classification:** Lecture: Numerical cosmology



Contribution ID: 41

Type: **not specified**

## Long lecture 2

*Wednesday, July 16, 2025 9:00 AM (1h 30m)*

**Presenter:** TEYSSIER, Romain

**Session Classification:** Lecture: Numerical cosmology

Contribution ID: 42

Type: **not specified**

## Long lecture 3

*Thursday, July 17, 2025 9:00 AM (1h 30m)*

**Presenter:** TEYSSIER, Romain

**Session Classification:** Lecture: Numerical cosmology

Contribution ID: 43

Type: **not specified**

## Long lecture 4

*Friday, July 18, 2025 9:00 AM (1h 30m)*

**Presenter:** TEYSSIER, Romain

**Session Classification:** Lecture: Numerical cosmology

Contribution ID: 44

Type: **not specified**

## Short lecture

*Wednesday, July 16, 2025 2:00 PM (1h 30m)*

**Presenter:** HAHN, Oliver

**Session Classification:** Lecture: Numerical cosmology

Contribution ID: 45

Type: **not specified**

## Short lecture

*Thursday, July 17, 2025 2:00 PM (1h 30m)*

**Presenter:** KRALJIC, Katarina

**Session Classification:** Lecture: Numerical cosmology

Contribution ID: 46

Type: **not specified**

## Short lecture

*Friday, July 18, 2025 2:00 PM (1h 30m)*

**Presenter:** ANGULO, Raul

**Session Classification:** Lecture: Numerical cosmology

Contribution ID: 47

Type: **not specified**

## Short lecture

*Thursday, July 10, 2025 9:00 AM (1h 30m)*

**Presenter:** FLEURY, Pierre

**Session Classification:** Lecture: The standard model of cosmology: a critique of its status

Contribution ID: 48

Type: **not specified**

## Long lecture 1

*Monday, July 14, 2025 11:00 AM (1h 30m)*

**Presenter:** STEER, Daniele

**Session Classification:** Lecture: Gravitational Waves for Cosmology



Contribution ID: 49

Type: **not specified**

## Short lecture

*Monday, July 14, 2025 2:00 PM (1h 30m)*

**Presenter:** DOUSPIS, Marian (IAS)

**Session Classification:** Lecture: Physics of the dark ages

Contribution ID: 50

Type: **not specified**

## Long lecture 2

*Tuesday, July 15, 2025 11:00 AM (1h 30m)*

**Presenter:** STEER, Daniele

**Session Classification:** Lecture: Gravitational Waves for Cosmology

Contribution ID: 51

Type: **not specified**

## Short lecture

*Wednesday, July 16, 2025 11:00 AM (1h 30m)*

**Presenter:** TAMANINI, Nicola

**Session Classification:** Lecture: Gravitational Waves for Cosmology

Contribution ID: 52

Type: **not specified**

## Short lecture

*Thursday, July 17, 2025 11:00 AM (1h 30m)*

**Presenter:** REGIMBAU, Tania

**Session Classification:** Lecture: Gravitational Waves for Cosmology

Contribution ID: 53

Type: **not specified**

## Short lecture

*Friday, July 18, 2025 11:00 AM (1h 30m)*

**Presenter:** CAPRINI, Chiara

**Session Classification:** Lecture: Gravitational Waves for Cosmology