

New Physics from Galaxy Clustering II

Report of Contributions

Contribution ID: 1

Type: **not specified**

Insights from galaxies at long distances

Monday 6 November 2023 11:00 (45 minutes)

Presenter: ZHANG, Pierre (ETH Zürich)

Contribution ID: 2

Type: **not specified**

EFT in the era of sub-percent precision: progress and open questions

Monday 6 November 2023 11:45 (45 minutes)

Presenter: IVANOV, Mikhail (MIT)

Contribution ID: 3

Type: **not specified**

Dissecting the Primordial Signal in Large-Scale Structure Power Spectra

Monday 6 November 2023 14:30 (10 minutes)

Presenter: WALLISCH, Benjamin (Stockholm University and UT Austin)

Session Classification: Short Talks 1

Contribution ID: 4

Type: **not specified**

Detectability of Contributions to the Galaxy Bispectrum

Monday 6 November 2023 14:40 (10 minutes)

Presenter: ROSSITER, Samantha (University of Turin)

Session Classification: Short Talks 1

Contribution ID: 5

Type: **not specified**

Bispectrum and finite-volume effects

Monday 6 November 2023 14:50 (10 minutes)

Presenter: PARDEDE, Kevin (INFN Parma)

Session Classification: Short Talks 1

Contribution ID: 6

Type: **not specified**

EFTofLSS meets simulation-based inference: σ_8 from biased tracers

Monday 6 November 2023 15:00 (10 minutes)

Presenter: TUCCI, Beatriz (MPA Garching)

Session Classification: Short Talks 1

Contribution ID: 7

Type: **not specified**

Degeneracies in Hubble constant measurements using gravitational lensing

Monday 6 November 2023 15:10 (10 minutes)

Presenter: TEODORI, Luca (Weizmann Institute)

Session Classification: Short Talks 1

Contribution ID: 8

Type: **not specified**

Undetecting Parity Violation

Monday 6 November 2023 15:20 (10 minutes)

Presenter: PHILCOX, Oliver (Columbia University and Simons Foundation)

Session Classification: Short Talks 1

Contribution ID: 9

Type: **not specified**

Field-level BAO inference

Monday 6 November 2023 16:00 (10 minutes)

Presenter: BABIC, Ivana (MPA Garching)

Session Classification: Short Talks 2

Contribution ID: **10**

Type: **not specified**

Dark Forces vs LSS 1

Monday 6 November 2023 16:10 (10 minutes)

Presenter: BOTTARO, Salvatore (Tel Aviv University)

Session Classification: Short Talks 2

Contribution ID: 11

Type: **not specified**

Dark Forces vs LSS 2

Monday 6 November 2023 16:20 (10 minutes)

Presenter: COSTA, Marco (Perimeter Institute)

Session Classification: Short Talks 2

Contribution ID: 12

Type: **not specified**

Constraining $f(R)$ gravity using future galaxy cluster abundance and weak-lensing mass calibration datasets

Monday 6 November 2023 16:30 (10 minutes)

Presenter: VOGT, Sophie (LMU Munich)

Session Classification: Short Talks 2

Contribution ID: 13

Type: **not specified**

ML x Cosmology with 50 Million Galaxies

Presenter: HAHN, ChangHoon (Princeton University)

Session Classification: Short Talks 2

Contribution ID: 14

Type: **not specified**

Ultra-light axions and the S₈ tension: joint constraints from the CMB and galaxy clustering [remote]

Thursday 9 November 2023 14:30 (45 minutes)

Presenter: ROGERS, Keir (University of Toronto)

Contribution ID: 15

Type: **not specified**

Neutrinos and dark radiation from Large Scale Structure

Tuesday 7 November 2023 11:00 (45 minutes)

Presenter: LOVERDE, Marilena (University of Washington)

Contribution ID: **16**

Type: **not specified**

Patchy dark screening

Tuesday 7 November 2023 11:45 (45 minutes)

Presenter: HUANG, Junwu (Perimeter Institute)

Contribution ID: 17

Type: **not specified**

Discussion session 1: Theoretical challenges in LSS

Tuesday 7 November 2023 14:30 (1 hour)

Co-authors: D'AMICO, Guido (Università degli Studi di Parma); GARNY, Mathias (TU Munich); LEWANDOWSKI, Matt (ETH Zürich); PHILCOX, Oliver (Columbia University and Simons Foundation)

Presenters: D'AMICO, Guido (Università degli Studi di Parma); GARNY, Mathias (TU Munich); LEWANDOWSKI, Matt (ETH Zürich); PHILCOX, Oliver (Columbia University and Simons Foundation)

Contribution ID: **18**

Type: **not specified**

Testing dark matter interactions through cosmic history

Wednesday 8 November 2023 09:45 (45 minutes)

Presenter: SLATYER, Tracy (MIT)

Contribution ID: 19

Type: **not specified**

Probing new physics with galaxy bias

Wednesday 8 November 2023 11:00 (45 minutes)

Presenter: SCHMIDT, Fabian (MPA Garching)

Contribution ID: **20**

Type: **not specified**

Cosmological features of Mirror Sector models

Wednesday 8 November 2023 14:30 (45 minutes)

Presenter: TSAI, Yuhsin (University of Notre Dame)

Contribution ID: 21

Type: **not specified**

Discussion session 2: BSM and primordial signatures in LSS

Wednesday 8 November 2023 16:00 (1 hour)

Link to Tracy's notes (also on first slide): <https://docs.google.com/document/d/1ibPn5jyphoUBSogw0u5JmSVcH6wYUyfZvu>

Co-authors: WALLISCH, Benjamin (Stockholm University and UT Austin); HUANG, Junwu (Perimeter Institute); LOVERDE, Marilena (University of Washington); SLATYER, Tracy (MIT)

Presenters: WALLISCH, Benjamin (Stockholm University and UT Austin); HUANG, Junwu (Perimeter Institute); LOVERDE, Marilena (University of Washington); SLATYER, Tracy (MIT)

Contribution ID: 22

Type: **not specified**

Self-interactions in the dark matter and neutrino sectors: Impact on galaxy clustering

Thursday 9 November 2023 09:45 (45 minutes)

Presenter: CYR-RACINE, Francis-Yan (University of New Mexico)

Contribution ID: 23

Type: **not specified**

Interacting dark radiation sectors and LSS

Thursday 9 November 2023 11:00 (45 minutes)

Presenter: SCHMALTZ, Martin (Boston University)

Contribution ID: 24

Type: **not specified**

ML x Cosmology with 50 Million Galaxies

Thursday 9 November 2023 11:45 (45 minutes)

Presenter: HAHN, ChangHoon (Princeton University)

Contribution ID: 25

Type: **not specified**

Discussion session 3

Contribution ID: 26

Type: **not specified**

(Sub)eV sectors in the CMB and LSS

Friday 10 November 2023 09:45 (45 minutes)

Presenter: ROMPINEVE, Fabrizio (CERN)

Contribution ID: 27

Type: **not specified**

Extending the reach of the Cosmological Collider

Friday 10 November 2023 11:00 (45 minutes)

Presenter: KUMAR, Soubhik (New York University)

Contribution ID: **28**

Type: **not specified**

Discussion

Contribution ID: 29

Type: **not specified**

Bootstrapping the Large Scale Structure of the Universe

Monday 6 November 2023 16:40 (10 minutes)

Presenter: MARINUCCI, Marco (Technion)

Session Classification: Short Talks 2

Contribution ID: **30**

Type: **not specified**

Workshop intro

Monday 6 November 2023 10:55 (5 minutes)