New Physics from Galaxy Clustering III

Report of Contributions

PT/EFT approach to Large-Scale ···

Contribution ID: 1

Type: not specified

PT/EFT approach to Large-Scale Structure formation

Monday 4 November 2024 11:00 (45 minutes)

Presenter: VLAH, Zvonimir (IRB, Zagreb)

Dark radiation: from theory to o ...

Contribution ID: 2

Type: not specified

Dark radiation: from theory to observations

Monday 4 November 2024 11:45 (45 minutes)

Presenter: GARNY, Mathias (Technical University of Munich)

Signatures of heavy particles in p

Contribution ID: 3

Type: not specified

Signatures of heavy particles in primordial non-Gaussianities

Monday 4 November 2024 14:30 (45 minutes)

[remote talk]

Presenter: BODAS, Arushi (Fermilab and University of Chicago)

Refining the nonlinear modelling …

Contribution ID: 4

Type: not specified

Refining the nonlinear modelling of primordial oscillatory features

Monday 4 November 2024 16:00 (10 minutes)

Presenter:BARBIERI, Nicola (University of Ferrara)Session Classification:Short Talks 1

Connecting field-level and summ $\,\cdots\,$

Contribution ID: 5

Type: not specified

Connecting field-level and summary statistics

Presenter: NIKOLAC, Ivana (Max Planck Institute for Astrophysics)Session Classification: Short Talks 1

Constraining mixed dark matter s \cdots

Contribution ID: 6

Type: not specified

Constraining mixed dark matter scenarios with the help of isocurvature perturbations

Monday 4 November 2024 16:10 (10 minutes)

Presenter: CELIK, Safak (Max Planck Institute for Astrophysics) **Session Classification:** Short Talks 1

On constraining cosmology at the ···

Contribution ID: 7

Type: not specified

On constraining cosmology at the level of the field with a bootstrap approach

Monday 4 November 2024 16:20 (10 minutes)

Presenter:PERON, Matteo (University of Parma)Session Classification:Short Talks 1

Nonlinear galaxy clustering in m ...

Contribution ID: 8

Type: not specified

Nonlinear galaxy clustering in massive neutrino cosmologies

Monday 4 November 2024 16:30 (10 minutes)

Presenter:VERDIANI, Francesco (SISSA Trieste)Session Classification:Short Talks 1

Towards an optimal marked corr \cdots

Contribution ID: 9

Type: not specified

Towards an optimal marked correlation function analysis for the detection of modified gravity

Monday 4 November 2024 16:50 (10 minutes)

Presenter:KÄRCHER, Martin (LAM and CPT, Marseille)Session Classification:Short Talks 1

DESI and weak lensing with the E $\,\cdots\,$

Contribution ID: 10

Type: not specified

DESI and weak lensing with the EFT of LSS

Tuesday 5 November 2024 09:45 (45 minutes)

Presenter: CHEN, Shi-Fan (Institute for Advanced Study)

Axion-induced patchy screening …

Contribution ID: 11

Type: not specified

Axion-induced patchy screening of the CMB

Tuesday 5 November 2024 11:00 (45 minutes)

Presenter: MONDINO, Cristina (Perimeter Institute)

Cosmology from the Lyman-alpha \cdots

Contribution ID: 12

Type: not specified

Cosmology from the Lyman-alpha forest

Presenter: DE BELSUNCE, Roger (LBNL / UC Berkeley) **Session Classification:** Short Talks 2

Simulation-based inference for \cdots

Contribution ID: 13

Type: not specified

Simulation-based inference for higher-order galaxy clustering statistics

Tuesday 5 November 2024 11:45 (10 minutes)

Presenter: TUCCI, Beatriz (Max Planck Institute for Astrophysics) **Session Classification:** Short Talks 2

Optimal statistics to measure non- ···

Contribution ID: 14

Type: not specified

Optimal statistics to measure non-local primordial non-Gaussianities

Tuesday 5 November 2024 11:55 (10 minutes)

Presenter:MARINUCCI, Marco (University of Padova)Session Classification:Short Talks 2

The effective speed of sound in the \cdots

Contribution ID: 15

Type: not specified

The effective speed of sound in the EFTofLSS

Tuesday 5 November 2024 12:05 (10 minutes)

Presenter: NASCIMENTO, Caio (University of Washington) **Session Classification:** Short Talks 2

Unequal-time correlators

Contribution ID: 16

Type: not specified

Unequal-time correlators

Tuesday 5 November 2024 14:30 (10 minutes)

Presenter: VANZAN, Eleonora (Tel Aviv U and Ben-Gurion U) **Session Classification:** Short Talks 3

Cosmology with higher order cor ...

Contribution ID: 17

Type: not specified

Cosmology with higher order correlation function of LSS

Tuesday 5 November 2024 14:40 (10 minutes)

Presenter:SPEZZATI, Francesco (University of Padova)Session Classification:Short Talks 3

Modeling halo statistics with the …

Contribution ID: 18

Type: not specified

Modeling halo statistics with the evolution mapping approach

Tuesday 5 November 2024 14:50 (10 minutes)

Presenter: FIORILLI, Andrea (MPI for Extraterrestrial Physics) **Session Classification:** Short Talks 3

EFT description of Lyman-alpha f $\,\cdots\,$

Contribution ID: 19

Type: not specified

EFT description of Lyman-alpha forest - halo cross-correlations

Tuesday 5 November 2024 15:00 (10 minutes)

Presenter: CHUDAYKIN, Anton (Université de Genève)Session Classification: Short Talks 3

How the trees lean: Toward \cdots

Contribution ID: 20

Type: not specified

How the trees lean: Toward Lyman-alpha forest skew spectra

Tuesday 5 November 2024 15:10 (10 minutes)

Presenter:SULLIVAN, Jamie (MIT)Session Classification:Short Talks 3

Bayesian field-level inference of l $\,\cdots\,$

Contribution ID: 21

Type: not specified

Bayesian field-level inference of local primordial non-Gaussianity in next-generation galaxy surveys

Presenter: ANDREWS, Adam (INAF OAS Bologna) **Session Classification:** Short Talks 3

Discussion session 1: BSM signals ···

Contribution ID: 22

Type: not specified

Discussion session 1: BSM signals in LSS (Theory)

Tuesday 5 November 2024 16:00 (1 hour)

Presenters: SEFUSATTI, Emiliano (INAF - Oss. Astronomico di Trieste); D'AMICO, Guido (University of Parma); LEWANDOWSKI, Matthew (ETH Zürich and CERN); GELLER, Michael (Tel Aviv University)

Simulations and nonlinearities be \cdots

Contribution ID: 23

Type: not specified

Simulations and nonlinearities beyond ACDM

Wednesday 6 November 2024 09:45 (45 minutes)

Presenter: KOYAMA, Kazuya (University of Portsmouth)

Galaxy bias and application to H- \cdots

Contribution ID: 24

Type: not specified

Galaxy bias and application to H-alpha emitters

Wednesday 6 November 2024 11:00 (45 minutes)

Presenter: DESJACQUES, Vincent (Technion)

A plot twist in the growth of pert $\,\cdots\,$

Contribution ID: 25

Type: not specified

A plot twist in the growth of perturbations: matter clustering suppression induced by Standard Model processes

Wednesday 6 November 2024 11:45 (10 minutes)

Presenter: CAMARENA, David (University of New Mexico)

Session Classification: Short Talks 4

Bootstrapping Lagrangian pertur ···

Contribution ID: 26

Type: not specified

Bootstrapping Lagrangian perturbation theory for LSS

Wednesday 6 November 2024 11:55 (10 minutes)

Presenter: PARDEDE, Kevin (INFN Parma) **Session Classification:** Short Talks 4

Power spectrum and bispectrum ···

Contribution ID: 27

Type: not specified

Power spectrum and bispectrum analysis of eBOSS DR16 quasar sample to constrain primordial non-Gaussianity

Wednesday 6 November 2024 12:05 (10 minutes)

Presenter: BARBERI SQUAROTTI, Matilde (University of Milan) **Session Classification:** Short Talks 4

The renormalization group for \cdots

Contribution ID: 28

Type: not specified

The renormalization group for Large-Scale Structure

Wednesday 6 November 2024 12:15 (10 minutes)

Presenter: RUBIRA, Henrique (LMU / Cambridge) **Session Classification:** Short Talks 4

DESI: First Year results and analy \cdots

Contribution ID: 29

Type: not specified

DESI: First Year results and analysis priorities for the Third Year data sample

Wednesday 6 November 2024 14:30 (30 minutes)

Presenter: DAWSON, Kyle (University of Utah)

Modeling galaxy clustering in the …

Contribution ID: 30

Type: not specified

Modeling galaxy clustering in the Euclid mission

Wednesday 6 November 2024 15:00 (30 minutes)

Presenter: CROCCE, Martin (ICE-CSIC Barcelona)

Discussion session 2: BSM signals ···

Contribution ID: 31

Type: not specified

Discussion session 2: BSM signals in LSS (Observations)

Wednesday 6 November 2024 16:00 (1 hour)

Presenters: DAWSON, Kyle (University of Utah); GUZZO, Luigi (University of Milan); SIMONOVIC, Marko (University of Florence); CROCCE, Martin (ICE-CSIC Barcelona)

Don't miss the forest for the trees: …

Contribution ID: 32

Type: not specified

Don't miss the forest for the trees: the Lyman-alpha forest in effective field theory

Thursday 7 November 2024 09:45 (45 minutes)

Presenter: IVANOV, Mikhail (MIT)

Primordial imprints in galaxy po ...

Contribution ID: 33

Type: not specified

Primordial imprints in galaxy power spectra

Thursday 7 November 2024 11:00 (45 minutes)

Presenter: WALLISCH, Benjamin (Stockholm U, Nordita and UT Austin)

Quintessence, Naturally

Contribution ID: 34

Type: not specified

Quintessence, Naturally

Thursday 7 November 2024 11:45 (45 minutes)

Presenter: KALOPER, Nemanja (UC Davis)

Interacting dark sectors in LSS

Contribution ID: 35

Type: not specified

Interacting dark sectors in LSS

Friday 8 November 2024 09:45 (45 minutes)

Presenter: JOSEPH, Melissa (University of Utah)

Neutrino masses from Large-Scale \cdots

Contribution ID: 36

Type: not specified

Neutrino masses from Large-Scale Structures: future sensitivity and theory dependence

Friday 8 November 2024 11:00 (45 minutes)

Presenter: RACCO, Davide (ETH and U of Zürich)

Closing

Contribution ID: 37

Type: not specified

Closing

Friday 8 November 2024 11:45 (45 minutes)

Long-range massive dark matter ···

Contribution ID: 38

Type: not specified

Long-range massive dark matter self-interactions in cosmology

Monday 4 November 2024 17:00 (10 minutes)

Presenter:COSTA, Marco (Perimeter Institute)Session Classification:Short Talks 1

Characterizing late time phase tr ···

Contribution ID: 39

Type: not specified

Characterizing late time phase transitions with cosmology

Monday 4 November 2024 17:10 (10 minutes)

Presenter:BOTTARO, Salvatore (Tel Aviv University)Session Classification:Short Talks 1

Workshop intro

Contribution ID: 40

Type: not specified

Workshop intro

Monday 4 November 2024 10:55 (5 minutes)

Bayesian field-level inference of l ...

Contribution ID: 41

Type: not specified

Bayesian field-level inference of local primordial non-Gaussianity in next-generation galaxy surveys

Tuesday 5 November 2024 12:15 (10 minutes)

Presenter:ANDREWS, Adam (INAF OAS Bologna)Session Classification:Short Talks 2