

Amplitudes 2018

Report of Contributions

Contribution ID: 1

Type: **not specified**

Conference Dinner

Wednesday, 20 June 2018 19:00 (3 hours)

Contribution ID: 2

Type: **not specified**

Public Lecture: The End of Spacetime

Tuesday, 19 June 2018 19:30 (1 hour)

Primary author: ARKANI-HAMED, Nima (IAS)

Presenter: ARKANI-HAMED, Nima (IAS)

Contribution ID: 3

Type: **not specified**

Free Afternoon

Thursday, 21 June 2018 14:50 (3h 10m)

Contribution ID: 4

Type: **not specified**

The New Era of Precision Gravitational-Wave (astro)Physics

Monday, 18 June 2018 09:15 (45 minutes)

Primary author: BUONANNO, Alessandra (Max Planck Inst., Potsdam)

Presenter: BUONANNO, Alessandra (Max Planck Inst., Potsdam)

Session Classification: Plenary

Contribution ID: 5

Type: **not specified**

Diagrammatic approach to two-body dynamics and post-Newtonian corrections

Monday, 18 June 2018 10:00 (35 minutes)

Primary author: MASTROLIA, Pierpaolo (University of Padua)

Presenter: MASTROLIA, Pierpaolo (University of Padua)

Session Classification: Plenary

Contribution ID: 6

Type: **not specified**

Welcome

Monday, 18 June 2018 09:00 (15 minutes)

Presenter: HEWETT, JoAnne (SLAC)

Contribution ID: 7

Type: **not specified**

Scattering Amplitudes and LIGO

Monday, 18 June 2018 11:15 (45 minutes)

Primary author: CHEUNG, Clifford (Caltech)

Presenter: CHEUNG, Clifford (Caltech)

Session Classification: Plenary

Contribution ID: 8

Type: **not specified**

Amplitudes for Fast Classical Scattering

Monday, 18 June 2018 12:00 (35 minutes)

Primary author: O'CONNELL, Donal (University of Edinburgh)

Presenter: O'CONNELL, Donal (University of Edinburgh)

Session Classification: Plenary

Contribution ID: 9

Type: **not specified**

All-loop singularities of massless planar amplitudes

Monday, 18 June 2018 14:50 (45 minutes)

Primary author: SPRADLIN, Mark (Brown University)

Presenter: SPRADLIN, Mark (Brown University)

Session Classification: Plenary

Contribution ID: **10**

Type: **not specified**

The Hepp bound for Feynman periods

Monday, 18 June 2018 15:35 (35 minutes)

Primary author: PANZER, Erik (Oxford University)

Presenter: PANZER, Erik (Oxford University)

Session Classification: Plenary

Contribution ID: 11

Type: **not specified**

Cosmic Galois Theory in Planar N=4 SYM

Monday, 18 June 2018 16:50 (35 minutes)

Primary author: MCLEOD, Andrew (Niels Bohr Institute)

Presenter: MCLEOD, Andrew (Niels Bohr Institute)

Session Classification: Plenary

Contribution ID: 12

Type: **not specified**

Form factors in N=4 SYM and beyond

Monday, 18 June 2018 17:25 (35 minutes)

Primary author: PENANTE, Brenda (CERN)

Presenter: PENANTE, Brenda (CERN)

Session Classification: Plenary

Contribution ID: 13

Type: **not specified**

Amplituhedron meets Jeffrey-Kirwan Residue

Tuesday, 19 June 2018 09:15 (45 minutes)

Primary author: LUKOWSKI, Tomasz (Oxford University)

Presenter: LUKOWSKI, Tomasz (Oxford University)

Session Classification: Plenary

Contribution ID: 14

Type: **not specified**

The space of EFT and CFT: life behind the facets of cyclic polytopes

Tuesday, 19 June 2018 10:00 (35 minutes)

Primary author: HUANG, Yu-tin (National Taiwan University)

Presenter: HUANG, Yu-tin (National Taiwan University)

Session Classification: Plenary

Contribution ID: 15

Type: **not specified**

Scattering Amplitudes From Combinatorial Geometry At Infinity

Tuesday, 19 June 2018 11:15 (45 minutes)

Primary author: ARKANI-HAMED, Nima (IAS)

Presenter: ARKANI-HAMED, Nima (IAS)

Session Classification: Plenary

Contribution ID: 16

Type: **not specified**

Positive Geometries, Canonical Forms and Scattering Amplitudes

Tuesday, 19 June 2018 12:00 (35 minutes)

Primary author: HE, Song (Beijing Institute of Theoretical Physics)

Presenter: HE, Song (Beijing Institute of Theoretical Physics)

Session Classification: Plenary

Contribution ID: 17

Type: **not specified**

From amplitudes to precision collider physics

Tuesday, 19 June 2018 14:50 (45 minutes)

Primary author: GEHRMANN, Thomas (University of Zurich)

Presenter: GEHRMANN, Thomas (University of Zurich)

Session Classification: Plenary

Contribution ID: 18

Type: **not specified**

Integrands and amplitudes for two-loop five-point scattering in QCD

Tuesday, 19 June 2018 15:35 (35 minutes)

Primary author: BADGER, Simon (University of Durham)

Presenter: BADGER, Simon (University of Durham)

Session Classification: Plenary

Contribution ID: 19

Type: **not specified**

Computing two-loop amplitudes with numerical unitarity

Tuesday, 19 June 2018 16:50 (35 minutes)

Primary author: FEBRES CORDERO, Fernando (University of Freiburg)

Presenter: FEBRES CORDERO, Fernando (University of Freiburg)

Session Classification: Plenary

Contribution ID: 20

Type: **not specified**

Integration-by-parts reductions from algebraic geometry

Tuesday, 19 June 2018 17:25 (35 minutes)

Primary author: LARSEN, Kasper (University of Southampton)

Presenter: LARSEN, Kasper (University of Southampton)

Session Classification: Plenary

Contribution ID: 21

Type: **not specified**

Exact scattering amplitudes in gamma-deformed N=4 SYM

Wednesday, 20 June 2018 09:15 (45 minutes)

Primary author: KORCHEMSKY, Gregory (Saclay)

Presenter: KORCHEMSKY, Gregory (Saclay)

Session Classification: Plenary

Contribution ID: 22

Type: **not specified**

Intersections

Wednesday, 20 June 2018 10:00 (35 minutes)

Primary author: MIZERA, Sebastian (Perimeter Institute)

Presenter: MIZERA, Sebastian (Perimeter Institute)

Session Classification: Plenary

Contribution ID: 23

Type: **not specified**

Soft theorem and its classical limit

Wednesday, 20 June 2018 11:15 (45 minutes)

Primary author: SEN, Ashoke (Harish-Chandra Research Institute)

Presenter: SEN, Ashoke (Harish-Chandra Research Institute)

Session Classification: Plenary

Contribution ID: 24

Type: **not specified**

Double copy and color-kinematics on curved backgrounds

Wednesday, 20 June 2018 12:00 (35 minutes)

Primary author: ADAMO, Tim (Imperial College)

Presenter: ADAMO, Tim (Imperial College)

Session Classification: Plenary

Contribution ID: 25

Type: **not specified**

Recent developments in string amplitudes

Wednesday, 20 June 2018 14:50 (45 minutes)

Primary author: SCHLOTTERER, Oliver (MPI Potsdam)

Presenter: SCHLOTTERER, Oliver (MPI Potsdam)

Session Classification: Plenary

Contribution ID: 26

Type: **not specified**

Two-loop amplitudes from the nodal Riemann sphere

Wednesday, 20 June 2018 15:35 (35 minutes)

Primary author: GEYER, Yvonne (IAS)

Presenter: GEYER, Yvonne (IAS)

Session Classification: Plenary

Contribution ID: 27

Type: **not specified**

Maximal Supergravity at 5 loops via Generalized Double-Copy

Wednesday, 20 June 2018 16:50 (35 minutes)

Primary author: CARRASCO, John Joseph (CEA Saclay)

Presenter: CARRASCO, John Joseph (CEA Saclay)

Session Classification: Plenary

Contribution ID: 28

Type: **not specified**

Calculating supergravity divergences at high loop orders

Wednesday, 20 June 2018 17:25 (35 minutes)

Primary author: ZENG, Mao (UCLA)

Presenter: ZENG, Mao (UCLA)

Session Classification: Plenary

Contribution ID: 29

Type: **not specified**

Light-ray operators in conformal field theory

Primary author: SIMMONS-DUFFIN, David (IAS)

Presenter: SIMMONS-DUFFIN, David (IAS)

Contribution ID: **30**

Type: **not specified**

Light-ray operators in conformal field theory

Thursday, 21 June 2018 09:15 (45 minutes)

Primary author: SIMMONS-DUFFIN, David (Caltech)

Presenter: SIMMONS-DUFFIN, David (Caltech)

Session Classification: Plenary

Contribution ID: 31

Type: **not specified**

Analytic bootstrap for large N theories

Thursday, 21 June 2018 10:00 (35 minutes)

Primary author: BISSI, Agnese (University of Uppsala)

Presenter: BISSI, Agnese (University of Uppsala)

Session Classification: Plenary

Contribution ID: 32

Type: **not specified**

Continuum limit of fishnet graphs and AdS sigma model

Thursday, 21 June 2018 11:15 (45 minutes)

Primary author: BASSO, Benjamin (Ecole Normale Superieure)

Presenter: BASSO, Benjamin (Ecole Normale Superieure)

Session Classification: Plenary

Contribution ID: 33

Type: **not specified**

ABJM flux-tube and scattering amplitudes

Thursday, 21 June 2018 12:00 (35 minutes)

Primary author: BELITSKY, Andrei (Arizona State University)

Presenter: BELITSKY, Andrei (Arizona State University)

Session Classification: Plenary

Contribution ID: 34

Type: **not specified**

Elliptic polylogarithms for Feynman integrals

Friday, 22 June 2018 09:15 (45 minutes)

Primary author: DUHR, Claude (CERN & Universite Catholique de Louvain)

Presenter: DUHR, Claude (CERN & Universite Catholique de Louvain)

Session Classification: Plenary

Contribution ID: 35

Type: **not specified**

A tale of two Regge limits

Friday, 22 June 2018 10:00 (35 minutes)

Primary author: DEL DUCA, Vittorio (ETH Zurich)

Presenter: DEL DUCA, Vittorio (ETH Zurich)

Session Classification: Plenary

Contribution ID: 36

Type: **not specified**

Maximally supersymmetric black holes don't precess

Friday, 22 June 2018 11:15 (45 minutes)

Primary author: CARON-HUOT, Simon (McGill University)

Presenter: CARON-HUOT, Simon (McGill University)

Session Classification: Plenary

Contribution ID: 37

Type: **not specified**

Simplicity in AdS Perturbative Dynamics

Friday, 22 June 2018 12:00 (35 minutes)

Primary author: YUAN, Ellis (IAS)

Presenter: YUAN, Ellis (IAS)

Session Classification: Plenary

Contribution ID: **38**

Type: **not specified**

Cuts and coaction of Feynman integrals

Friday, 22 June 2018 14:50 (45 minutes)

Primary author: BRITTO, Ruth (Trinity College, Dublin)

Presenter: BRITTO, Ruth (Trinity College, Dublin)

Session Classification: Plenary

Contribution ID: 39

Type: **not specified**

Linearizing Loop Integration

Friday, 22 June 2018 15:35 (35 minutes)

Primary author: BOURJAILY, Jacob (Niels Bohr Institute)

Presenter: BOURJAILY, Jacob (Niels Bohr Institute)

Session Classification: Plenary

Contribution ID: 40

Type: **not specified**

Quantum Gravity from Conformal Field Theory

Friday, 22 June 2018 16:10 (35 minutes)

Primary author: DRUMMOND, James (University of Southampton)

Presenter: DRUMMOND, James (University of Southampton)

Session Classification: Plenary

Contribution ID: 41

Type: **not specified**

Poster Session

Wednesday, 20 June 2018 18:00 (1 hour)

Contribution ID: 42

Type: **not specified**

Poster Setup

Wednesday, 20 June 2018 08:45 (30 minutes)

Contribution ID: 43

Type: **not specified**

Amplitudes 2019

Thursday, 21 June 2018 12:35 (5 minutes)

Primary author: BRITTO, Ruth (University of Amsterdam)

Presenter: BRITTO, Ruth (University of Amsterdam)