

Infrared Surprises of Scattering Amplitudes

Report of Contributions

Contribution ID: 1

Type: **not specified**

Soft theorems from higher symmetries

Monday 12 May 2025 09:30 (1 hour)

Presenter: PARRA-MARTINEZ, Julio (IHES)

Contribution ID: 2

Type: **not specified**

Gravity as a phase of matter

Tuesday 13 May 2025 09:30 (1 hour)

Presenter: MATHYS, Gregoire Olivier (EPFL - Ecole Polytechnique Federale Lausanne (CH))

Contribution ID: 3

Type: **not specified**

Discussion: TQFT Surprises of Scattering Amplitudes

Monday 12 May 2025 15:30 (1 hour)

Presenters: COPETTI, Christian (Mathematical Insitute, University of Oxford); LAM, Ho Tat (Massachusetts Institute of Technology)

Contribution ID: 4

Type: **not specified**

Overview talk: SCET and Soft Theorems

Monday 12 May 2025 11:00 (1 hour)

Presenter: HAGER, Patrick Angus (MITP, Johannes Gutenberg University Mainz)

Contribution ID: 5

Type: **not specified**

Soft Scalars in Effective Field Theory

Tuesday 13 May 2025 11:00 (1 hour)

Presenter: DERDA, Maria (Caltech)

Contribution ID: 6

Type: **not specified**

Discussion: Perturbative IR divergences in massless gauge theory

Tuesday 13 May 2025 14:00 (1 hour)

Presenters: DIXON, Lance (SLAC/Stanford University); MAGNEA, Lorenzo (University of Torino)

Contribution ID: 7

Type: **not specified**

Overview talk: Amplitudes, Waveforms, and Supertranslations

Wednesday 14 May 2025 09:30 (1 hour)

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

Contribution ID: 8

Type: **not specified**

Gravitational soft theorems and soft spectra

Wednesday 14 May 2025 11:00 (1 hour)

Presenter: HEISSENBERG, Carlo (Uppsala University and Nordita)

Contribution ID: 9

Type: **not specified**

Rigorous approaches to non-perturbative scattering amplitudes, correlators and partition functions (TH colloquium)

Wednesday 14 May 2025 14:00 (1 hour)

Presenter: VAN REES, Balt (Ecole Polytechnique, Paris)

Contribution ID: **10**

Type: **not specified**

Overview talk: Infrared surprises in gravity and celestial CFT

Thursday 15 May 2025 09:30 (1 hour)

Presenter: PUHM, Andrea (University of Amsterdam)

Contribution ID: **11**

Type: **not specified**

Electromagnetic and Gravitational wave tails from Soft Theorem

Thursday 15 May 2025 11:00 (1 hour)

Presenter: SAHOO, Biswajit (King's College London)

Contribution ID: 12

Type: **not specified**

Discussion: BMS particles for an infrared finite S-matrix

Thursday 15 May 2025 14:00 (1 hour)

Presenter: Prof. DONNAY, Laura (SISSA)

Contribution ID: 13

Type: **not specified**

Bound-Unbound Universality and the All-Order Semi-Classical Wave Function in Schwarzschild

Friday 16 May 2025 09:30 (1 hour)

Presenter: Dr TELEM, Ofri (The Hebrew University of Jerusalem)

Contribution ID: 14

Type: **not specified**

Surprise! It's Fermion-Monopole Scattering!

Friday 16 May 2025 11:00 (1 hour)

Presenter: MOULAND, Rishi (Imperial College London)

Contribution ID: 15

Type: **not specified**

Concluding discussion

Contribution ID: 16

Type: **not specified**

Analytic properties of infrared-finite amplitudes in theories with long-range forces

Friday 16 May 2025 14:00 (1 hour)

Presenter: LIPPSTREU, Luke (University of Edinburgh)