

Week 4 of the Thematic Programme on  
“Carrollian Physics and Holography”

April 22 - 26, 2024

organized by

Andrea Campoleoni (U of Mons), Laura Donnay (SISSA, Trieste), Stefan Fredenhagen (U of Vienna), Daniel Grumiller (TU Vienna)

• **Monday, April 22nd, 2024**

09:00 – 09:30 **Registration**

09:30 – 10:30 **Review talk: Claudio Dappiaggi (U Pavia)**

*Quantum field theory on asymptotically flat spacetimes and the BMS group*

10:30 – 11:00 **Discussion**

11:00 – 11:30 **Coffee Break**

11:30 – 12:00 **Javier Matulich (UAM-CSIC, Madrid)**

*Superrotations at Spacelike Infinity*

12:00 – 12:30 **Discussion**

12:30 – 14:30 **Lunch Break**

14:30 – 15:00 **Sabrina Pasterski (Perimeter Institute, Waterloo)**

*Radiation in Holography*

15:00 – 15:30 **Discussion**

15:30 – 16:00 **Coffee Break**

18:30 – 22:00 **Drinks & Dinner (self-paid)**

*at the Stiegl-Ambulanz (<https://maps.app.goo.gl/qwg6dQ6LWLnfSx548>)*

• **Tuesday, April 23rd, 2024**

09:30 – 10:00 **Simon Pekar (Ecole Polytechnique)**

*From Carrollian conformal scalars to flat-space higher-spin gravity*

10:00 – 10:30 **Discussion**

10:30 – 11:00 **Coffee Break**

11:00 – 11:30 **Juan A. Valiente Kroon (QMU London)**

*BMS-supertranslation charges at the critical sets of null infinity*

11:30 – 12:00 **Discussion**

12:00 – 14:00 **Lunch Break**

14:00 – 15:00 **Review talk: Piotr Chrusciel**

*Topic: Characteristic initial data and smoothness of scri*

15:00 – 15:30 **Discussion**

15:30 – 16:00 **Coffee Break**

- **Wednesday, April 24th, 2024**

09:30 – 10:00 **Romain Ruzziconi (U Oxford)**

*Carrollian Amplitudes, Celestial Symmetries and Twistor Space*

10:00 – 10:30 **Discussion**

10:30 – 11:00 **Coffee Break**

11:00 – 11:30 **Federica Muscolino (San Sebastian U)**

*The Carroll particles in Two Times*

11:30 – 12:00 **Discussion**

12:00 – 14:00 **Lunch Break**

- **Thursday, April 25th, 2024**

09:30 – 10:30 **Review talk: Glenn Barnich (ULB, Brussels)**

*BMS representations*

10:30 – 11:00 **Discussion**

11:00 – 11:30 **Coffee Break**

11:30 – 12:00 **Amartya Saha (IITK, Kanpur)**

*Soft Theorems from Carrollian Physics*

12:00 – 12:30 **Discussion**

12:30 – 14:30 **Lunch Break**

15:00 – 16:00 **Abhiram Kidambi**

*Non-holomorphic Eisenstein Series and Quadratic Forms for Ensemble Averages in Holography Enthusiasts*

This talk takes place at TU Wien, Wiedner Hauptstrasse 8, 10th floor (yellow sector).

18:30 – 00:00 **Farewell dinner at Café Schwarzenberg**

- **Friday, April 26th, 2024**

09:30 – 10:00 **Céline Zwikel (Perimeter Institute, Waterloo)**

*TBA*

10:00 – 10:30 **Discussion**

11:00 – 11:30 **Giandomenico Palumbo (DIAS, Dublin)**

*Boundary states of covariant fracton models*

11:30 – 12:00 **Discussion**

12:00 – 14:00 **Lunch Break**

**All talks take place at ESI Boltzmann Lecture Hall!**