

Week 2 of the Thematic Programme on  
“Carrollian Physics and Holography”

April 8 - 12, 2024

organized by

**Andrea Campoleoni (U of Mons), Pedro del Real Lavergne (U of Vienna), Laura Donnay (SISSA, Trieste), Adrien Fiorucci (TU Vienna), Stefan Fredenhagen (U of Vienna), Daniel Grumiller (TU Vienna), Stefan Prohazka (U of Vienna)**

• **Monday, April 8th, 2024**

09:00 – 09:30 **Registration**

09:30 – 10:30 **Marios Petropoulos (École Polytechnique, Palaiseau)**  
*Carroll and Applications - Selected Topics*

10:30 – 11:00 **Discussion**

11:00 – 11:30 **Coffee Break**

11:30 – 12:00 **Marc Henneaux (Collège de France, Paris)**  
*Carroll Swiftons*

12:00 – 12:30 **Discussion**

12:30 – 14:30 **Lunch Break**

14:30 – 15:00 **Florian Ecker (TU Vienna)**  
*Carroll Hawking effect*

15:00 – 15:30 **Discussion**

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

• **Tuesday, April 9th, 2024**

09:30 – 10:30 **Review talk: Arjun Bagchi (IITK, Kanpur)**  
*Carrollian Holography: Yesterday, today, tomorrow.*

10:30 – 11:00 **Discussion**

11:00 – 11:30 **Coffee Break**

11:30 – 12:00 **Maxim Grigoriev (U of Mons)**  
*BV-AKSZ approach to asymptotic symmetries of gravity*

12:00 – 12:30 **Discussion**

12:30 – 14:30 **Lunch Break**

14:30 – 15:00 **Sudipta Dutta (IITK, Kanpur)**  
*Carroll correlators from Witten diagrams*

15:00 – 15:30 **Discussion**

15:30 – 16:00 **Coffee Break**

- **Wednesday, April 10th, 2024**

09:30 – 10:00 **José Figueroa-O’Farrill (U of Edinburgh)**

*CFT explorations of BMS-like algebras*

10:00 – 10:30 **Discussion**

10:30 – 11:00 **Coffee Break**

11:00 – 11:30 **Xavier Bekaert (U Tours)**

*Holographic realisation of Carrollian conformal scalars*

11:30 – 12:00 **Discussion**

12:00 – 14:00 **Lunch Break**

14:00 – 14:30 **Lea Mele (U of Mons)**

*Carroll Fermions*

14:30 – 15:00 **Discussion**

15:00 – 15:30 **Coffee Break**

15:30 – 16:00 **Jack Borthwick (McGill U)**

*Asymptotic structures at timelike infinity from projective geometry*

16:00 – 16:30 **Discussion**

19:00 – 00:00 **Conference dinner (Mayer Am Pfarrplatz)**

- **Thursday, April 11th, 2024**

09:30 – 10:30 **Review talk: Yannick Herfray (U Tours)**

*An introduction to twistor theory, as seen from null infinity.*

10:30 – 11:00 **Discussion**

11:00 – 11:30 **Coffee Break**

11:30 – 12:00 **Shreyansh Agrawal (SISSA, Trieste)**

*Logarithmic soft graviton theorems from superrotation Ward identities*

12:00 – 12:30 **Discussion**

12:30 – 14:30 **Lunch Break**

14:30 – 15:00 **Konstantinos Siampos (Aristotle U of Thessaloniki)**

*The geometric origin of the energy-momentum tensor improvement terms*

15:00 – 15:30 **Discussion**

- **Friday, April 12th, 2024**

09:30 – 10:00 **Patricio Salgado-Rebolledo (TU Vienna)**

*A first-order action for electric Carroll gravity*

10:00 – 10:30 **Discussion**

10:30 – 11:00 **Coffee Break**

11:30 – 12:00 **Discussion**

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