Week 3 of the Thematic Programme on
“Carrollian Physics and Holography”
April 15 - 19, 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 15th, 2024
09:00 – 09:30 Registration
09:30 – 10:30 Review talk: Jay Armas (U of Amsterdam)
Carrollian Fluids and Spontaneously Broken Boosts
10:30 – 11:00 Discussion
11:00 – 11:30 Coffee Break
11:30 – 12:00 Aleksander Główkowski (UST Wroclaw)
Hydrodynamics with dipole conservation
12:00 – 12:30 Discussion
12:30 – 14:30 Lunch Break
14:30 – 15:00 Laurent Freidel (Perimeter Institute, Waterloo)
Null Raychauduri: Canonical structure, Dressing time and Quantum geometry
15:00 – 15:30 Discussion
15:30 – 16:00 Coffee Break
16:00 – 16:30 Raphaela Wutte (ASU, Phoenix)
Hyperbolic Mass in 2+1 Dimensions
16:30 – 17:00 Discussion
18:30 – 22:00 Drinks & Dinner (self-paid)
at the Stiegl-Ambulanz (https://maps.app.goo.gl/qwg6dQ6LWLnfSx548)

• Tuesday, April 16th, 2024
09:30 – 10:30 Review talk: Kristan Jensen (U of Victoria)
Fractons and quantum theories with exotic symmetry
10:30 – 11:00 Discussion
11:00 – 11:30 Coffee Break
11:30 – 12:00 Alfredo Perez (CECS, Valdivia)
Fracton infrared triangle
12:00 – 12:30 Discussion
12:30 – 14:30 Lunch Break
14:30 – 15:00 Erica Bertolini (DIAS, Dublin)
A covariant approach to fractons: Maxwell theory of fractons
15:00 – 15:30 Discussion
15:30 – 16:00 Coffee Break

• Wednesday, April 17th, 2024
09:30 – 10:00 Alessio Caddeo (U de Oviedo)
Fracton gravity from spacetime dipole symmetry
10:00 – 10:30 Discussion
10:30 – 11:00 Coffee Break
11:00 – 11:30 Marc Geiller (ENS Lyon)
Subleading structure of asymptotically-flat spacetimes
11:30 – 12:00 Discussion
12:00 – 14:00 Lunch Break
14:15 – 15:15 Leonhard Kehrberger (U of Cambridge)
The Case Against Smooth Null Infinity and the Persistence of Polyhomogeneity
This talk takes place at Faculty of Physics, Währinger Str. 17, 2nd floor, seminar room A.
15:15 – 15:30 Coffee Break
15:30 – 16:00 Joaquim Gomis (U of Barcelona)
Interacting Conformal Carroll Particles and Tachyonic Carroll strings
16:00 – 16:30 Discussion
19:00 – 00:00 Conference dinner II (Schübel-Auer)

• Thursday, April 18th, 2024
10:00 – 10:30 Discussion
10:30 – 11:00 Coffee Break
11:00 – 11:30 Stephan Stieberger (MPP, Munich)
Celestial and Carrollian Amplitudes
11:30 – 12:00 Discussion
12:00 – 14:00 Lunch Break
14:00 – 15:00 Review talk: Massimo Porrati (NYU, New York)
Supertranslation invariance and covariance of Lorentz charges
15:00 – 15:30 Discussion
15:30 – 16:00 Coffee Break
17:00 – 18:00 Dima Vassilevich (UFABC, Santo André)
PSM diffeos and holography
This talk takes place at TU Wien, Wiedner Hauptstrasse 8, 10th floor.
• Friday, April 19th, 2024

09:30 – 10:00  Peter Horvathy (U of Tours)
Memory Effect and Carroll Symmetry for gravitational waves

10:00 – 10:30 Discussion

10:30 – 11:00 Coffee Break

11:00 – 11:30 Federico Capone (U of Jena)
TBA

11:30 – 12:00 Discussion

12:00 – 14:00 Lunch Break

14:00 – 14:30 Daniele Pranzetti (U of Udine)
On the definition of the spin charge in asymptotically-flat spacetimes

14:30 – 15:00 Discussion

15:00 – 15:30 Coffee Break

All talks take place at Boltzmann Lecture Hall!