

**5th Week (July 3 – 7, 2023) of the  
Thematic Programme on  
“Spectral Theory and Mathematical Relativity”**

**June 5 - July 28, 2023**

**organized by**

**Piotr T. Chruściel (U of Vienna), Peter Hintz (ETH Zurich), Alexander Strohmaier (U Leeds)**

- **Monday, July 3rd, 2023**

15:00 – 15:50 **Alden Waters (U Leeds)**

*The relative trace formula in electromagnetic scattering*

- **Tuesday, July 4th, 2023**

15:00 – 15:50 **Pascal Millet (U Grenoble Alpes)**

*Leading-order term expansion for the Teukolsky equation on subextremal Kerr black holes*

- **Wednesday, July 5th, 2023**

15:00 – 15:50 **Lionel Mason (U Oxford)**

*Gravity from holomorphic discs and celestial  $L^{1+\infty}$  symmetries*

- **Thursday, July 6th, 2023**

15:00 – 15:50 **Simone Murro (U Genova)**

*Hadamard states for Maxwell fields via complete gauge fixing*

- **Friday, July 7th, 2023**

14:00 – 14:50 **Andrea Nützi (ETH Zürich)**

*Maurer-Cartan perturbation theory and scattering amplitudes in general relativity*

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