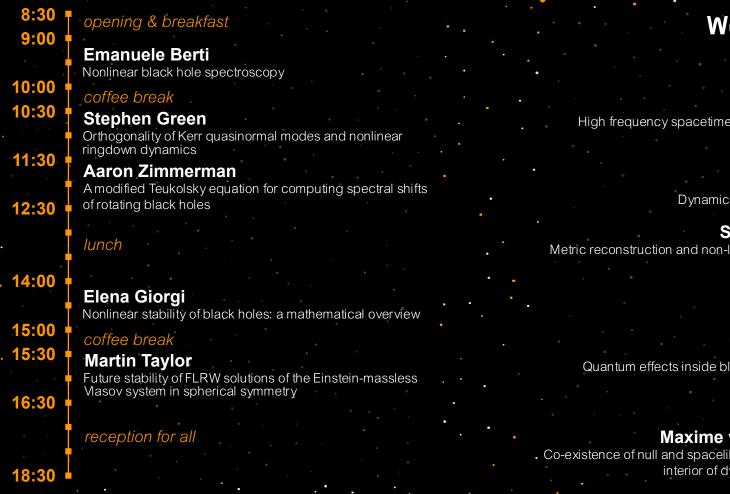
# Workshop on Nonlinear Aspects of General Relativity

## @ 407 Jadwin Hall Princeton University

# Tuesday 10/Oct:

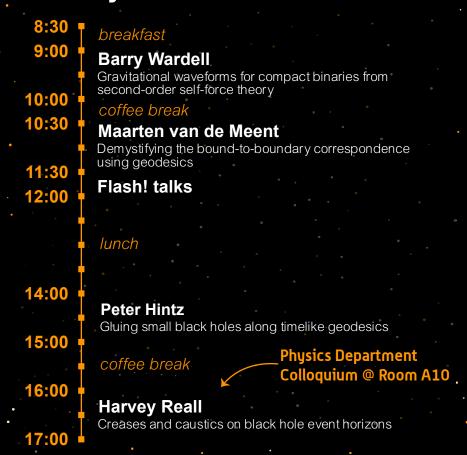


## Wednesday 11/Oct:

Jonathan Luk High frequency spacetimes in general relativity  coffee break  Robert Wald	8:30 9:00 10:00 10:30
Dynamical black hole entropy	11:30
Stefan Hollands  Metric reconstruction and non-linear mode coupling	12:30
lunch	
Marc Casals	14:00
Quantum effects inside black hole spacetimes  Flash! talks  coffee break	15:00 15:30
Maxime van de Moortel Co-existence of null and spacelike singularities in the interior of dynamical black holes	16:00
interior of dynamical plack holes	17:00

**Organizers**: Alejandro **Cárdenas-Avendaño** (Princeton), Macarena **Lagos** (Columbia), Adam **Pound** (Southampton), Igor **Rodnianski** (Princeton), Gautam **Satishchandran** (Princeton), Leo **Stein** (Mississippi), Rita **Teixeira da Costa** (Princeton/Cambridge), Niels **Warburton** (UC Dublin)

#### Thursday 12/Oct:



### Friday 13/Oct:



#### **Princeton Center for Theoretical Science**

The Princeton Center for Theoretical Science is dedicated to exploring the frontiers of theory in the natural sciences. Its purpose is to promote interaction among theorists and seed new directions in research, especially in areas cutting across traditional disciplinary boundaries. The Center is home to a



corps of Center Postdoctoral Fellows, chosen from nominations made by senior theoretical scientists around the world. A group of senior Faculty Fellows, chosen from science and engineering departments across the campus, are responsible for guiding the Center. Center activities include focused topical program chosen from proposals by Princeton faculty across the natural sciences. The Center is located on the fourth floor of Jadwin Hall, in the heart of the campus "science neighborhood". The Center hopes to become the focus for innovation and cross-fertilization in theoretical natural science at Princeton.

Faculty Fellows: Igor Klebanov (Director), Ned Wingreen (Associate Director), Andrei Bernevig, Jeremy Goodman, Duncan Haldane, Andrej Košmrlj, Mariangela Lisanti, Frans Pretorius, Silviu Pufu, Eliot Quataret, Shinsei Ryu

#### **Princeton Gravity Initiative**

The Princeton Gravity Initiative is a collaborative effort between Princeton's Astrophysics, Mathematics, and Physics departments to explore the fundamental nature of gravity.



Faculty Fellows: Mihalis Dafermos (Director), Adam Burrows, Simone Giombi, Jeremy Goodman, Alexandru Ionescu, Sergiu Klainerman, Igor Klebanov, Frans Pretorius, Eliot Quataret, Igor Rodnianski, Anatoly Spitovsky, Paul Steinhardt, Herman Verlinde





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