PCGM Schedule

Friday, March 25

9:00 – 9:10: Arrive + coffee

Session 1: Chaired by Veronika Hubeny

9:10: **Veronika Hubeny** [UC Davis]
Welcome

9:15: **Sizheng Ma** (*) [Caltech]
Relativistic effects on neutron star fundamental-mode dynamical tides

9:30: **Yoonsoo Kim** (*) [Caltech]
Comparison of shock capturing schemes for the discontinuous Galerkin method in GRMHD

9:45: **Erik Wessel** (*) [University of Arizona]
NR simulations of PPI-unstable BH-disk systems: Effect of magnetization at late times

10:00: **Gh. Saleh** [Saleh Research Centre]
Gravitational frequency of stars with their planets and planets with other planets in the same system

10:15 – 11:00: Coffee break

Session 2: Chaired by Julio Virrueta

11:00: **Gary Horowitz** [UCSB]
A new type of extremal black hole

11:15: **Maciej Kolanowski** (*) [University of Warsaw/UCSB]
Almost all extremal black holes in AdS are singular

11:30: **Robinson Mancilla** (*) [UCSB]
Thermal one-point function from Weyl tensor source.

11:45: **Shruti Paranjape** [UC Davis]
Supersymmetrizing Massive Gravity

12:00: **Julie Perkins** (*) [UCSB]
Schrodinger Evolution of Four-Dimensional Black Holes

12:15 – 2:00: Lunch break

Session 3: Chaired by Shruti Paranjape

2:00: **Temple He** [UC Davis]
Momentum diffusion and sound propagation in neutral plasma

2:15: **Julio Virrueta** [UC Davis]
Effective description of momentum diffusion in a charged plasma from holography

2:30: **Xiaoyi Liu** (*) [UCSB]
Finding complex saddle-point solutions in JT gravity

2:45: **Lucas Daguerre** (*) [UC Davis]
Holographic Approach to Irreversibility of the Renormalization Group

3:00: **Xiaohua Ye** (*) [UCSB]
Phases of Holographic CFTs on a Product of Spheres

3:15: **Ziyi Li** (*) [UCSB]
Aspects of Holography in Conical AdS3

3:30 – 4:00: Coffee break

Session 4: Chaired by Temple He

4:00: **Alexey Milekhin** [UCSB]
Black holes and cryptocurrencies

4:15: **Henry Leung** (*) [UCSB]
Charged shells in black holes and scrambling

4:30: **Leonel Queimada** (*) [UCSB]
Chaos in Charged Black Holes

4:45: **Sean Colin-Ellerin** (*) [UC Davis]
Bootstrapping Quantum Extremal Surfaces

5:00: **Molly Kaplan** (*) [UCSB]
The algebras of HRT-area and half-geodesic operators

5:15: **Zhencheng Wang** (*) [UCSB]
The Spacetime Geometry of Fixed-Area States in Gravitational Systems

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Saturday, March 26

Session 5: Chaired by Sean Colin-Ellerin

9:00: **Gabriel Steffano Bonilla** [California State University, Fullerton]
Modeling the Merger in Beyond-GR Waveforms

9:15: **Robert Rosati** [NASA - MSFC]
Detecting an Early-Universe Stochastic Gravitational Wave Background with LISA

9:30: **Brian Seymour** (*) [Caltech]
Multiband Gravitational Wave Cosmography with Dark Sirens

9:45: **Keefe Mitman** (*) [Caltech]
The Importance of BMS Frames for Gravitational Wave Modeling

10:00: **Christian Ferko** [UC Davis]
Gravitational Memory and Compact Extra Dimensions

10:15: **Kellie O'Neal-Ault** (*) [Embry-Riddle Aeronautical University]
Spacetime-symmetry breaking via dispersion and birefringence effects of gravitational waves

10:30 – 11:00: Coffee break

Session 6: Chaired by Christian Ferko

11:00: **Dongjun Li** (*) [Caltech]
An extension of Teukolsky formalism to beyond-GR theories

11:15: **Rhondale Tso** (*) [Caltech]
Constraining Vainshtein Screening with Cosmic Explorer

11:30: **Wayne Weng** (*) [UCSB]
A Tale of Two Butterflies: An Exact Equivalence in Higher-Derivative Gravity

11:45: **Cem Yetişmişoğlu** (*) [Koç University]
Scale covariant theories of gravity and a three dimensional example

12:00 – 2:00: Lunch break

Session 7: Chaired by Julio Virrueta

2:00: **Jude Pereira** (*) [Arizona State University]
A New Gauge for Flat Space

2:15: **Juan Uribe** (*) [Loyola Marymount University]
Characterization of EUP Black Holes

2:30: **Weixuan Hu** (*) [UC Davis]
covariant phase space quantization of cosmological models

2:45: **Jordan Wilson-Gerow** [Caltech]
Aspects of the Correlated Worldline theory: formalism and signatures

3:00: **Paul F. OBrien** [none]
Defining quantum information with a Schwarzschild - Hawking BH

3:15: **Steven Carlip** [UC Davis]
Path integrals may suppress non-manifoldlike causal sets

3:30: Presentation of award for best student talk prize