

Geometry and Holography for Quantum Criticality (August 18-26)

2017-08-16 21:43

	18(Fri)	19(Sat)	20(Sun)	21(Mon)	22(Tue)
Chair	Keun-Young Kim	Chanyong Park	Eoin O Colgain	Nakwoo Kim	Keun-Young Kim
09:00-09:30	Registration / Breakfast & Coffee				
09:30-10:30	Sang-Jin Sin Opening remarks (9:25-9:30)	Andy Lucas 3 <i>Theory of metallic transport in strongly coupled matter</i>	Aron Beekman 3 <i>Dual Higgs mechanism in 2+1D quantum liquid crystals</i>	Blaise Goutéraux 1 <i>Holographic Quantum Criticality</i>	Blaise Goutéraux 3 <i>Holographic Quantum Criticality</i>
	Andy Lucas 1 <i>Theory of metallic transport in strongly coupled matter</i>				
10:30-11:00	Coffee & Discussion				
11:00-12:00	Andy Lucas 2 <i>Theory of metallic transport in strongly coupled matter</i>	Aron Beekman 1 <i>Strong-weak dualities in quantum phase transitions</i>	Aron Beekman 4 <i>3+1D quantum liquid crystals</i>	Thiago Rocha Araujo <i>Penrose limits and spin chains in massive type IIA supergravity</i>	Kentaroh Yoshida 1 <i>SYK model and AP model</i>
				Hyojoong Kim <i>Holography of mass-deformed D2-brane Chern-Simons theories</i>	
12:00-14:00	Lunch				
14:00-15:00	Sang-Jin Sin <i>Holography of Dirac materials</i>	Andy Lucas 4 <i>Theory of metallic transport in strongly coupled matter</i>	Sangmin Lee <i>Holography of 3d-3d correspondence revisited</i>	Blaise Goutéraux 2 <i>Holographic Quantum Criticality</i>	Blaise Goutéraux 4 <i>Holographic Quantum Criticality</i>
	Yunseok Seo <i>Small Fermi Surfaces and Strong Correlation Effects in Dirac Materials with Holography</i>		Sangmo Cheon <i>Topological Superconductivity in Dirac Semimetal</i>		
	Kyung Kiu Kim <i>Thermodynamic volume of black holes in AdS/CFT (15:00-15:30)</i>				
15:00-15:30	Coffee & Discussion				
15:30-16:30		Aron Beekman 2 <i>Dual gauge field theory of 2+1D solids</i>	Gil Young Cho <i>Anomaly Manifestation of Lieb-Schultz-Mattis Theorem and Topological Phases</i>	Matteo Baggioli <i>Universal bounds on transport: to be or not to be?</i>	Yi Ling <i>Holographic butterfly effect and phase transition</i>
			Bum-Hoon Lee <i>Transport properties in anisotropic materials</i>		
18:00-19:00	Dinner			Banquet (18:00-20:00)	Dinner

	23(Wed)	24(Thu)	25(Fri)	26(Sat)
Chair	Sang-Jin Sin	Sangmo Cheon	Ki-Seok Kim	Sang-Jin Sin
09:00-09:30	Breakfast & Coffee			
09:30-10:30	Kentaroh Yoshida 2 <i>SYK model and AP model</i>	Tomi Ohtsuki 1 <i>Anderson localization</i>	Tomi Ohtsuki 2 <i>Anderson localization</i>	Chanyong Park <i>Renormalization group flow of entanglement entropy to thermal entropy</i>
				Yun-Long Zhang <i>Rindler Fluid with Momentum Relaxation</i>
				Mitsuhiro Nishida <i>Geodesic Witten diagrams with an external spinning field (10:30-11:00)</i>
10:30-11:00	Coffee & Discussion			
11:00-12:00	Koji Hashimoto <i>Quantum information and Black hole</i>	Alireza Akbari <i>Unconventional superconductor</i>	Tomi Ohtsuki 3 <i>Anderson localization</i>	
12:00-14:00	Lunch			
14:00-15:00	Kentaroh Yoshida 3 <i>SYK model and AP model</i>	Tuson Park 1 <i>Quantum criticality in heavy fermion systems</i>	Run-Qiu Yang <i>Regularized holographic complexity</i>	
			Eun-Gook Moon <i>Thermal conductivity in 3d U(1) quantum spin liquids</i>	
15:00-15:30	Coffee & Discussion			
15:30-16:30	Ki-Seok Kim <i>Emergent holographic description for strongly coupled field theories</i>	Tuson Park 2 <i>Quantum criticality in heavy fermion systems</i>	Tomi Ohtsuki Colloquim <i>Anderson localization based on deep learning</i>	
	Cheng-Yong Zhang <i>Quantum corrections to holographic mutual information</i>			
18:00-19:00	Dinner			