

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

Updated on July 31, 2017

	18(Fri)	19(Sat)	20(Sun)	21(Mon)	22(Tue)
Chair	Keun-Young Kim	Chanyong Park	Sang-Jin Sin	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	Sang-Jin Sin TBA	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>	Kentaro Yoshida1 <i>SYK model and AP model</i>
	Yunseok Seo TBA			Hyojoong Kim <i>Holography of mass-deformed D2-brane Chern-Simons theories</i>	
12:00-14:00	Lunch				
14:00-15:00	Andy Lucas 2 <i>Theory of metallic transport in strongly coupled matter</i>	Andy Lucas 4 <i>Theory of metallic transport in strongly coupled matter</i>	Sangmin Lee TBA	Blaise Goutéraux 2 <i>Holographic Quantum Criticality</i>	Blaise Goutéraux 4 <i>Holographic Quantum Criticality</i>
			Sangmo Cheon TBA		
			Gil Young Cho <i>Anomaly Manifestation of Lieb-Schultz-Mattis Theorem and Topological Phases (15:00-15:30)</i>		
15:00-15:30	Coffee & Discussion				
15:30-16:30	Bum-Hoon Lee TBA	Aron Beekman 2 <i>Dual gauge field theory of 2+1D solids</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>
	Kyung Kiu Kim TBA				
18:00-19:00	Dinner			Banquet (18:00-20:00)	Dinner

	23(Wed)	24(Thu)	25(Fri)	26(Sat)
Chair	Eoin O Colgain	Ki-Seok Kim	Sangmo Cheon	Sang-Jin Sin
09:00-09:30	Breakfast & Coffee			
09:30-10:30	Kentaro Yoshida2 <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</i>
				Yun-Long Zhang <i>Rindler Fluid with Momentum Relaxation</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>	Keun-Young Kim TBA
				Chao Niu TBA
12:00-14:00	Lunch			
14:00-15:00	Kentaro Yoshida3 <i>SYK model and AP model</i>	Tuson Park 1 <i>Quantum criticality in heavy fermion systems</i>	Ki-Seok Kim <i>Emergent holographic description for strongly coupled field theories</i>	
			Eun-Gook Moon TBA	
15:00-15:30	Coffee & Discussion			
15:30-16:30	Run-Qiu Yang <i>Regularized holographic complexity</i>	Tuson Park 2 <i>Quantum criticality in heavy fermion systems</i>	Tomi Ohtsuki <i>Colloquim</i>	
	Mitsuhiro Nishida <i>Geodesic Witten diagrams with an external spinning field</i>			
18:00-19:00	Dinner			