

4th Young Scientists' Forum on Theoretical Physics and Interdisciplinary Studies

6-8 January 2020
Asia/Shanghai timezone

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Contact

✉ fangxiao@itp.ac.cn
☎ 13810720585

Programme

4th Young Scientists' Forum on Theoretical Physics and Interdisciplinary Studies ITP/CAS, Jan.6-Jan.8, 2020		
Jan. 6, 2020		
Chair: 王延颢		
8:45-9:00	Opening Remarks	
9:00-10:00	王小云	密码学与区块链技术
10:00-10:15	Coffee Break	
10:15-11:15	陆亚林	准粒子测量相关的几个问题
11:15-11:50	Long Liang	Quantum metric and superfluidity
11:50-14:00	Lunch Break	
Chair: 易俗		
14:00-14:35	Tharnier Oliveira	Mixed-order quantum phase transition far from equilibrium
14:35-15:10	Barbara Bravo	Phase transitions in antiferromagnetic quantum spin chains with dipolar interactions
15:10-15:45	Wei Wang	Quantum matter in fractional dimension: anyonic states and entanglement renormalization on fractal
15:45-16:15	Coffee Break	
16:15-16:50	Tilen Cadez	Nodal loop Weyl semimetal in the presence of quasiperiodic potentials
16:50-17:25	Mi Jiang	Relevance of 3d multiplet structure in models of infinite layer NdNiO ₂ and high T _c cuprates
17:25-18:00	Vivek Mishra	Effect of forward scattering impurities on d-wave superconductivity: Application

Jan. 7, 2020

Chair: 杨刚

9:00-9:35	Congkao Wen	Matching $SL(2, Z)$ duality in $N=4$ SYM correlators and IIB superstring amplitudes
9:35-10:10	Xinyu Zhang	Effective gravitational couplings of four-dimensional $N=2$ supersymmetric gauge theories
10:10-10:40	Group Photo and Coffee Break	
10:40-11:15	Ning Su	Recent Developments in Numerical Bootstrap
11:15-11:50	Xinan Zhou	New Analytic Results in the Conformal Bootstrap
11:50-14:00	Lunch Break	
Chair: 舒菁		
14:00-14:35	Fei Teng	SUSY decomposition and BCJ numerators from forward limits
14:35-15:10	Gansukh Tumurtushaa	Cosmic Inflation in Horndeski Theory
15:10-15:45	Yang Lei	Probing the EVH limit of supersymmetric AdS black holes
15:45-16:15	Coffee Break	
16:15-16:50	Jing Wang	Quantum effects on gravitationally bound neutron star binaries
16:50-17:25	Qingdi Wang	Fine-tuning of the cosmological constant is not needed
17:25-18:00	Jun Zhang	Dynamical Signatures of Black Hole Binaries with Superradiant Clouds
18:30-20:00	Banquet	

Jan. 8, 2020

Chair: 蔡荣根

9:00-9:35	Dongping Yang	Multi-scale brain dynamics modelling with applications in sleep and epilepsy
9:35-10:10	Yao Li	Vesicle transformations in and far from equilibrium
10:10-10:40	Coffee Break	
10:40-11:15	Lingna Wu	Bath-Induced Decay of Stark Many-Body Localization

11:15-11:50	Yongchao Zhang	Leptogenesis without loops
12:00	Ceremony for the Best Presentation Award	



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