

Holography, Quantum Entanglement and Higher Spin Gravity II

@ YITP, Kyoto, March 14-16

Workshop Program (Place: Panasonic Hall)

[Mar.14th (Wed.)]

9:50-10:00 Opening

10:00-11:00 **Javier Magan** “Quantum complexity in holographic theories”

[Coffee Break]

11:30-12:30 **Masahiro Nozaki** “Entanglement Spreading and Oscillation”

[Lunch Break]

14:00-15:00 **Janet Hung** “Tensor network and Lorentzian Spacetime”

[Coffee Break]

15:30-15:50 **Koji Umemoto** “Entanglement of purification and AdS/CFT”

15:50-16:10 **Arpan Bhattacharyya** “Entanglement of Purification in Free scalar field theory ”

16:10-16:30 **Kotaro Tamaoka** “Towards Entanglement of Purification for Conformal Field Theories”

[Short Break]

17:00-17:40 **Tatsuma Nishioka** “OPE for Conformal Defects and Holography”

17:40-18:00 **Nozomu Kobayashi** “Spinning defects in conformal field theory”

[Mar.15th (Thu.)]

9:30-10:30 Fernando Pastawski “Holography inspired numerical experiments in exactly solvable tensor networks”

[Coffee Break]

11:00-11:20 Kento Watanabe “Optimization of Path-Integrals in CFTs and Complexity”

11:20-12:00 Pawel Caputa “Path Integral Complexity in Quantum Field Theories”

[Short Break]

12:20-12:40 Runqiu Yang “Complexity for continuous systems and homogeneous Finsler manifolds”

12:40-13:00 Tomonori Ugajin “Chaos and relative entropy”

[Lunch Break]

14:30-15:30 Tomoyuki Morimae “Basics of quantum computing and some recent results”

[Coffee Break]

16:00-16:20 Jiang Long “Some results of mutual information in conformal field theories”

16:20-16:40 Noburo Shiba “Entanglement Entropy and Decoupling in the Universe”

16:40-17:00 Masamichi Miyaji “Time shift via various double trace deformations”

[Short Break]

17:30-18:30 Norihiro Iizuka “Some thoughts on "complexity" ”

19:00- 21:00 Banquet (for only those who signed in when they registered) @Salon in Yukawa Hall

[Mar.16th (Fri.)]

9:30-10:30 Jeff Murugan “Some recent developments in 2D random supersymmetric CFT's”

[Coffee Break]

11:00-11:20 Max Riegler “Warped Black Holes in Lower-Spin Gravity”

11:20-11:40 Kanato Goto “Complexity for SYK-gravity and traversable wormholes”

11:40-12:00 Shuichi Yokoyama “Flow equation, conformal symmetry, AdS geometries with general conformally flat boundary”

[Lunch Break]

13:30-14:30 Henry Maxfield “A view of the bulk from the worldline”

[Coffee Break]

15:00-15:20 Takahiro Uetoko “Correlators in higher spin AdS₃ holography with loop corrections”

15:20-16:00 Yasuaki Hikida “Conformal blocks from Wilson lines with loop corrections”

Workshop End