

## Yu Nakayama (Rikkyo)

*Thursday, 20 October 2022 15:10 (50 minutes)*

[chair: Takuya Okuda (Tokyo)]

“(Topological) Twist and Scale vs Conformal invariance”

(Topological) twisting a conformal field theory admits more deformations than its original theory. We argue that such deformations often lead to scale-invariant but non-conformal fixed points. One physical example is to allow spin-orbit interaction in the Heisenberg magnet, leading to scale-invariant but non-conformal Aharony-Fisher fixed point. We show similar examples in Euclidean M2-brane holography, where the self-dual field strength plays a prominent role.