

How information geometry is encoded in bulk geometry

Thursday, 5 December 2019 15:00 (3 hours)

We study how information geometry is described by bulk geometry in the gauge/gravity correspondence. We consider a quantum information metric that measures the distance between the ground states of a CFT and a theory obtained by perturbing the CFT. Using the GKP-Witten relation, we find a universal formula that expresses the quantum information metric by a geometrical quantity in a back-reacted bulk geometry.

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