

Quantum information metric in the gauge/gravity correspondence

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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 two field theories, where one is obtained by perturbing the other. We find a universal formula that represents the quantum information metric in terms of back reaction to the bulk geometry. This talk is based on JHEP 06 (2020) 107 (arXiv:2002.11365) and a forthcoming paper.

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