

Quantum strings and the gauge/gravity duality

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In string theory the gauge/gravity duality (also known as AdS/CFT correspondence) has proven an invaluable tool in the exploration of both strongly coupled quantum field theories and quantum gravity, thanks to its strong-weak nature. On the other hand, in recent years remarkable progress have been made in computing exact answers for observables in strongly coupled quantum field theories thanks to localisation.

In this talk I will start by giving a short introduction to the AdS/CFT correspondence and localisation, and explain how their relation provides us with numerous precision tests of the duality, from which we can learn about gravity beyond the classical limit.

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