AdS/CFT correspondence

In [theoretical physics](https://en.wikipedia.org/wiki/Theoretical_physics), the **anti-de Sitter/conformal field theory correspondence**, sometimes called **Maldacena duality** or **gauge/gravity duality**, is a conjectured relationship between two kinds of physical theories. On one side are [anti-de Sitter spaces](https://en.wikipedia.org/wiki/Anti-de_Sitter_space) (AdS) which are used in theories of [quantum gravity](https://en.wikipedia.org/wiki/Quantum_gravity), formulated in terms of [string theory](https://en.wikipedia.org/wiki/String_theory) or [M-theory](https://en.wikipedia.org/wiki/M-theory). On the other side of the correspondence are [conformal field theories](https://en.wikipedia.org/wiki/Conformal_field_theory) (CFT) which are [quantum field theories](https://en.wikipedia.org/wiki/Quantum_field_theory), including theories similar to the [Yang–Mills theories](https://en.wikipedia.org/wiki/Yang%E2%80%93Mills_theory) that describe elementary particles.