

# THE STRING THEORY UNIVERSE - 22nd European string workshop and Final COST MP1210 Conference



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## PLENARY TALK 1 - Ofer Aharony

*Monday 20 February 2017 09:30 (50 minutes)*

Loops in AdS from conformal field theory

“Gauge/gravity duality is often used to compare classical results on the gravity side to leading large- $N$  results in quantum field theory. At higher orders, perturbative loop corrections to the classical gravity results map to  $1/N$  corrections to the field theory. We show how crossing symmetry constrains this mapping, and allows a direct conformal field theory computation of loop diagrams in anti-de Sitter space.”