



Institut de Ciències del Cosmos
UNIVERSITAT DE BARCELONA



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Quantum (Super)gravity from Conformal Field Theory

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Using knowledge about the spectrum of operator in $N=4$ SYM, consistency of OPE, and analytic bootstrap techniques, I will obtain loop corrections of IIB supergravity on $AdS_5 \times S^5$. Along the way, I will discuss a general formula for the leading anomalous dimension of all double trace operators in the supergravity regime.

Primary author: APRILE, Francesco

Presenter: APRILE, Francesco