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Unifying correlators in $\text{AdS}_5 \times \text{S}^5$ supergravity

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We study correlation functions half-BPS operators in $\mathcal{N}=4$ super Yang-Mills at strong coupling, dual to tree-level supergravity on $\text{AdS}_5 \times \text{S}^5$. We use techniques from the CFT toolkit: an inversion formula which expresses OPE data at this order as integrals over a finite sum of protected conformal blocks. The results for different spherical harmonics confirm recent conjectures, and reveal a striking simplicity: we show that the correlators fit together into a single ten-dimensional object, which enjoys a “hidden” conformal invariance.

Summary

Presenter: CARON HUOT, Simon