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Constructing CFTs from AdS flows

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Employing the RG flow equations for weakly coupled quantum field theories in AdS, I show how one can apply the AdS/CFT correspondence to obtain flow equations for the dual CFTs. In this duality, loop corrections in the AdS bulk are mapped to $1/N$ corrections in the CFT. I derive recursion relations for CFT correlation functions which generalize existing results in the large- N limit to all orders in the $1/N$ expansion, and show how these translate directly into recursion relations for the corresponding Mellin amplitudes.

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