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Thermal conformal blocks

We will discuss the derivation of the conformal blocks for the thermal one-point function of primary scalar operators in d-dimensional conformal field theories. We will quickly explain how these objects can in theory be computed directly in the CFT by an explicit calculation and with the help of a Casimir differential equation. We will then introduce an auxiliary Anti de Sitter space that allows us to find a closed form for the blocks in terms of Witten diagrams.