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Operator Product Expansion

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With the help of the renormalization group flow equations a la Wilson-Wegner-Polchinski-Wetterich several hitherto conjectural properties and several new properties of the operator product expansion (OPE) have been established in recent times such as 1) its convergence properties 2) its algebraic properties ("associativity"), or 3) a functional master equation for the OPE coefficients. With the help of the master equation, a differential equation for the flow of the conformal data (OPE coefficients and anomalous dimensions) in d -dimensional CFTs under a marginal perturbation can be established. In this talk, I give an overview over such results.

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