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The Weyl Consistency conditions and their consequences

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The conformal symmetry plays an important role in quantum field theories, even when it is explicitly broken by a renormalization group flow. The Weyl consistency conditions reflect its presence in the renormalized theory. They provide relations among the beta functions at different loop orders, with a broad range of applications, from the determination of the vacuum stability in the Standard Model to the mixing of higher-dimensional operators in effective theories.

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