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Dynamical restoration of conformal invariance in sigma-models

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We consider a class of integrable deformations of current algebra/coset CFTs by current/parafermion bilinears, known as λ -deformed models. We dynamically promote the deformation parameters by introducing time as an extra coordinate and we enforce conformal invariance at one-loop order. The derived model obeys a system of non-linear second-order ordinary differential equations and by appropriate choosing the initial conditions we interpolate between the RG fixed points of the parental model as the time varies from the far past to the far future.

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