

New Results and Conjectures on Theory Space

Using scalar field theory as a template, I will discuss new insights into the structure of theory space emerging from the Exact Renormalization Group. I will outline how conformal symmetry is realized in this framework and then discuss the spectrum of fixed-points and how this is tied up with the renormalization of composite operators. Finally, I will mention possible constraints on asymptotic safety scenarios deriving from unitarity.

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