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RG flows between Gaussian fixed points

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A scalar theory can have many Gaussian (free) fixed points, corresponding to Lagrangians of the form $\phi \square^k \phi$. We use the non-perturbative RG to study the flow from the free theory with four derivatives ($k = 2$) to the free theory with two derivatives ($k = 1$), in the presence of a shift-invariant interaction.

Presenter: BUCCIO, Diego