Contribution ID: **21** Type: **not specified**

Higher derivative extension of the functional renormalization group

Wednesday, 8 December 2021 16:40 (20 minutes)

We study higher derivative extension of the functional renormalization group (FRG).We consider the general form of the FRG equations for a scalar field that include higher functional derivatives with respect to the field. We show that the epsilon expansion around the Wilson-Fisher fixed point is indeed reproduced by the local potential approximation of the general FRG equations.

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Session Classification: Short talk