

Dipartimento di Fisica Università di Cagliari INFN, Sezione di Cagliari



HIGH ENERGY PHYSICS COLLOQUIA

11 ottobre 2017 · ore 15:00 · aula A

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Playing with multi-critical systems: RG and CFT approaches in the ϵ expansion in d>2

Abstract

I will consider several classes of unitary and non unitary scalar field theories at criticality below the upper critical dimension and discuss perturbative methods to study their universal behavior, based on a functional renormalization group approach or, assuming conformal invariance, CFT constraints and Schwinger-Dyson equations. One finds agreement in the expressions of the scaling dimensions and leading OPE coefficients. Novel results for some universality classes are presented.

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