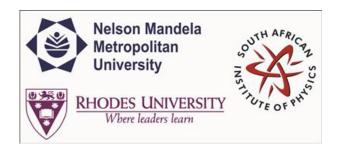
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Non-Fermi Liquid Fixed Point in a Wilsonian Theory of Quantum Critical Metals

Tuesday, 30 June 2015 15:20 (20 minutes)

Abstract content
 (Max 300 words)
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Recently there has been significant interest in new types of metals which cannot be described by Fermi liquid theory. One of the paradigm to understand these metals is by the use of the Wilsonian renormalization group (RG) to study a theoretical model consisting of fermions coupled to a gap less order parameter. In this way low energy fixed points which cannot be described using Landau Fermi theory, but are still perturbative, can be constructed. We will describe these fixed points with a particular emphasis on the renormalization of finite density systems.

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Robert De Mello Koch at Wits university robert.demellokoch@gmail.com

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