



Contribution ID: 31

Type: not specified

Critical behaviour at thermal m -axial Lifshitz point and stability of the FFLO superfluid phases

Tuesday, 26 July 2022 16:35 (20 minutes)

We apply nonperturbative renormalization group method to critical exponents of m -axial Lifshitz point as a function of dimensionality d , anisotropy m and the number of order parameter components N . Basing on the results we consider the stability of the Fulde-Ferrell-Larkin-Ovchinnikov states in cold atom system.

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