Contribution ID: **71**　　　　　　　　　　　　　　　　　　　　Type: **not specified**

The low-temperature phase of the O(N) models below two dimensions

Thursday, 28 July 2022 16:55 (20 minutes)

We investigate the low-temperature behaviour of the O(N) models for 1<d,N<2. We identify a phase with algebraic correlations similar to the Kosterlitz-Thouless phase but characterized by a universal anomalous dimension. We sketch the region of the (d,N)-plane where the algebraic low-temperature phase is present and calculate the anomalous dimension as a function of (d,N).

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