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Type: **Contributed Talk (20 minutes)**

Numerical tests of the large charge expansion

Friday 11 October 2024 14:50 (20 minutes)

We perform Monte-Carlo measurements of two and three-point functions of charged operators in the critical $O(2)$ model in 3 dimensions. Our results are compatible with the predictions of the large charge superfluid effective field theory. We improved the Worm algorithm to obtain reliable measurements for large charge values. We devised a measurement scheme that mitigates the uncertainties due to lattice and finite-size effects.

Which topic best fits your talk?

High Energy Physics and Cosmology

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Session Classification: High Energy Physics & Cosmology II (Chair: Carlos Herdeiro, Universidade de Aveiro) - Sala Sousa Pinto, DM (11.2.6)