

Conformal Field theories in 3.99 dimensions.

Thursday, 15 August 2013 13:30 (40 minutes)

We discuss how crossing symmetry constraints can be analytically continued to non-integer space-time dimension, allowing a formulation of the bootstrap program in fractional dimensions.

We show evidences of the existence of a families of CFT's connecting the Ising Model in 2D and the Wilson-Fisher perturbative fixed points. We analyze properties of these CFT's and we compare with known results.

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Session Classification: Field and String Theory