

THE ISING QUANTUM CHAIN REALIZATION OF THE BCFTs: A NUMERICAL APPROACH

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In this work, we present a numerical method to identify the Boundary Conformal Field Theories (BCFT) describing the critical behavior of the 2D-Ising Model on the Strip. This method is based on the measuring of the low-lying excitation energies spectra of the Ising Quantum Chain for different Boundary conditions in order to compare them with those of the possible Boundary Conformal Field Theories of the (A_2, A_3) minimal model.

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[2] S. Balaska and N.S.Bounoua, Ising Quantum Chain Realization of the Conformal Field Theories, arXiv : 1104.1104 v1