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Entanglement Entropy of Forrester-Baxter RSOS Models

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We analytically evaluate the Rényi entropy for the Forrester-Baxter RSOS models in the regime III. These models are lattice realisations of non-unitary minimal models of CFT. By studying the leading term of this expression it is possible to probe conformal properties of the ground state. Our results agree completely with recent CFT predictions for the entanglement entropy of non-unitary systems. Furthermore we discuss a class of possible quantum Hamiltonian related to off-critical RSOS models.

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