

CONFORMAL INVARIANCE IN THE PLANAR ISING MODEL

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The two-dimensional Ising model is, perhaps, the simplest model of phase transition in statistical physics. Since 1980-s, it was conjectured that the model is conformally invariant at criticality. I will explain this conjecture and review its recent proof by S. Smirnov and his school. In particular, I will discuss my joint results with D. Chelkak and C. Hongler on spin correlations.