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Constraints on CFTs in Diverse Dimensions from the Bootstrap Mechanism

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Recently an efficient numerical method has been developed to implement crossing symmetry and unitarity on the operator dimensions and on OPE coefficients in CFTs in various dimensions.

These calculations can be done only for theories lying at the boundary of the allowed parameter space. I illustrate an alternative method that can be applied to a larger class of CFTs, whether unitary or not, though the obtained results are not yet as precise as in the usual method.

Examples of this kind of calculations, where the usual method cannot be applied, include the CFTs associated with the Yang-Lee edge singularity in $D < 6$ or with the ordinary surface transition in 3D Ising model.

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