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Conformal constraints on defects

Thursday 30 June 2016 12:30 (25 minutes)

I will explore the constraints imposed by conformal invariance on defects in a conformal field theory. Correlation function of a conformal defect with a bulk local operator is fixed by conformal invariance up to an overall constant. This gives rise to the notion of defect expansion, where the defect itself is expanded in terms of local operators. A correlator of two defect operators admits a number of conformal cross-ratios depending on their dimensionality. I will find the differential equation obeyed by the conformal block and solve them in certain special cases. [arXiv:1602.06354]

Summary

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