

Defects in Conformal Field Theory

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Abstract:

A conformal field theory (CFT) is a quantum field theory invariant under the conformal transformations. CFTs appear in several important problems in physics: critical phenomena, UV complete quantum field theories, the string theory, and so on. Among various problems in CFT, I would like to focus on “defects” in CFT. Defects have two aspects: extension of boundaries and operators localized on a submanifold. I would like to explain some problems concerning to defects in CFT, and some approaches to solve them.