

## **Magnetic Defects in Conformal Field Theory**

Magnetic solenoids in quantum systems can have lead to novel and interesting physics in the deep infrared, owing to the fact that they can be classified by a number, the magnetic flux of the solenoid. We review the general physics of co-dimension two defects with an eye towards studying magnetic defects, and discuss new central charges that arise in these mixed dimensional systems. We comment on holographic constructions of these defects and give some physical observables.

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