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## The Chiral Algebra Program for Four-Dimensional SuperConformal Field Theories

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Any calN=2 4d superconformal field theory (SCFT) contains a subsector isomorphic to a 2d chiral algebra, or vertex operator algebra (VOA). The VOA computes a rich class of observables of the SCFT. In the opposite direction, four-dimensional physics expectations lead to interesting mathematical conjectures for VOAs. Most ambitiously, one hopes to use this 4d/2d correspondence as on organizing principle for the whole landscape of calN=2 SCFTs. In this talk, I will review the basics of the correspondence and describe some recent progress in characterizing the class of VOAs that descend from 4d SCFTs. The new insight is the VOA is intimately related to the low energy effective field theory on the Higgs branch of the 4d theory.

## Summary

Presenter: RASTELLI, Leonardo