

Théorie conforme des champs et systèmes quantiques à plusieurs corps  
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Conformal field theory and quantum many-body physics  
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## **Bootstrapping the CFT Landscape**

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I will summarize recent progress at mapping out and solving 3d conformal field theories using the conformal bootstrap. This includes new bounds on the 3d  $O(3)$  model, which has given a bootstrap proof that critical Heisenberg magnets are unstable to cubic anisotropy, new precision islands in the supersymmetric Ising and 3d Gross-Neveu-Yukawa models, and new constraints on 4-flavor 3d quantum electrodynamics.