

1097-14-232

David R Morrison* (drm@math.ucsb.edu). *Canonical singularities and superconformal field theories.*

To every isolated canonical singularity which can occur on an elliptically fibered complex algebraic threefold, there is an associated six-dimensional superconformal field theory. We will explain this correspondence, and outline a classification program for the singularities and the field theories. This talk is based in part on joint work with Jonathan Heckman and Cumrun Vafa. (Received January 23, 2014)