

Title : Coulomb branches of 3d  $N=4$  gauge theories

Abstract : I will review the mathematical definition of Coulomb branches of 3d  $N=4$  gauge theories given by Braverman, Finkelberg and myself. Then I will specialize to quiver gauge theories, for which many results have been shown. In particular, I will emphasize the duality between them and quiver varieties, which are Higgs branches of the same quiver gauge theories.