
SABIN CAUTIS, UBC

Categorical structure of Coulomb branches of 4D $N=2$ gauge theories

We will discuss the categorical structure of Coulomb branches. For concreteness we focus on the massless case which is just the category of coherent sheaves on the affine Grassmannian (the coherent Satake category).

These categories are conjecturally governed by a cluster algebra structure. We describe a solution of this conjecture in the case of general linear groups and discuss its extension to more general Coulomb branches of 4D $N=2$ gauge theories. This is joint work with Harold Williams.