

# STABLE REPRESENTATIONS OF BOUND QUIVERS

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ABSTRACT. We investigate stable representations of bound quivers associated to the posets. Due to Klyachko [Klya] equivariant reflexible sheaves on toric varieties generate certain representation of some bound quiver related to a poset. Stability condition of a given reflexible sheaf and its Chern classes reflect on the weight which play the role in stability condition for corresponding representations (see for example [KnuS]). We study under which condition given representation of bound quiver is stable with some weight. This leads to ADE classification in the case when poset is primitive. For non-primitive case there will be finite-wild classification. (Based on joint work [WY] with Thorsten Weist).

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