universität**bonn**

Minisymposium 12 - Representation Theory of Algebras

Smooth models of quiver moduli

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Quiver moduli parametrize isomorphism classes of (poly-)stable representations of quivers up to isomorphism. Analogous to the case of moduli of vector bundles, there is a distinction between a (numerically defined) coprime case, with quite well-understood non-singular projective moduli, and a non-coprime case, leading either to non-compact, or to highly singular moduli.

The aim of the talk is to formulate and study a closely related moduli problem, which always produces smooth projective moduli. Their topology and geometry (in particular, their Betti numbers) will be described, and the representation-theoretic significance will be discussed.