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The Geometry of Twisted Cyclic Quiver Varieties

Cyclic Higgs bundles find uses in various aspects of non-abelian Hodge theory (where they are manageable enough to do examples with) and have proven to be potent problem-solving tools in other areas as well. Starting from the world of twisted quiver representations, we investigate the geometry of moduli spaces of L-twisted cyclic Higgs bundles, being particularly concrete when the underlying Riemann surface is the projective line $\mathbb{P}^1$.

This is joint work with Steven Rayan.