QUIVER INVARIANT THEORY AND APPLICATIONS

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ABSTRACT. This series of talks is about studying representations of bound quiver algebras within the general framework of Geometric Invariant Theory. We will survey some of the fundamental results in the area of quiver invariant theory such as the numerical criterion for semi-stability of quiver representations, and the First Fundamental Theorem for quiver semi-invariants. We will also discuss applications to Edmonds problem in algebraic complexity and robust subspace recovery in big data.

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