

# Imaginary Schur—Weyl duality for representations of KLR algebras of affine type

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We present a classification of irreducible representations for KLR algebras of affine types. Representations corresponding to imaginary roots (via KLR categorification) are handled via an “imaginary Schur—Weyl duality”, which establishes an equivalence between a certain category of imaginary representations of the KLR algebra and the category of representations of a classical Schur algebra.

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