

## DIAGRAMMATICS FOR QUANTUM

$\mathfrak{sl}(2)$  **AND**  $i$ -QUANTUM  $\mathfrak{gl}(1)$

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I will present joint work with Catharina Stroppel. In the talk I will explain our explicit diagrammatic/combinatorial description of all morphisms between finite dimensional representations of quantum  $\mathfrak{sl}(2)$  (including type -1 representations!!!). Then I will explain how morphisms between representations of  $i$ -quantum  $\mathfrak{gl}(1)$  look utilizing that their category is a module category over the monoidal category of quantum  $\mathfrak{sl}(2)$  representations.