

Representations of quantum symmetric pairs at roots of 1

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The quantum symmetric pair consists of a Drinfeld-Jimbo quantum group and a coideal subalgebra. In this talk, we study the representation of the coideal subalgebra when the quantum parameter is specialised at a root of 1. In particular, we show that the irreducible modules of the coideal subalgebras are parametrised by twisted conjugacy classes of the associated semisimple group. This is ongoing work joint with Weinan Zhang.