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Representations of the Quantum Double. Preliminary report.

A good place to find representations of the quantum double $D(H)$ of a Hopf algebra H is in the $D(H)$ -bimodule algebra $H \otimes C$, where C is the finite dual of H . Here we consider the case $H = U_q(\mathfrak{sl}_2)$ with generic q , and we give a presentation of the subalgebra of highest-weight vectors. (Received February 28, 2017)