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Coideal subalgebras of quantized enveloping algebras.

Quantum groups, and in particular quantized enveloping algebras of semisimple Lie algebras, are Hopf algebras which have played a very important role in representation theory and mathematical physics in the past three decades. Certain twisted Yangians and twisted quantum loop algebras can be realized as subalgebras of quantized enveloping algebras but are not themselves Hopf subalgebras: they are instead coideal subalgebras. A brief overview of some interesting coideal subalgebras of quantized enveloping algebras will be presented along with a few recent results for the twisted case of type AIII. (This talk will be partly based on joint work with Xiaoguang Ma.)