

1041-16-121

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Categorification of quantum groups.

In my talk I will explain how to categorify Lusztig's version of the quantized enveloping algebra for $\mathfrak{sl}(2)$ using its canonical basis. If time permits I will also explain joint work with Mikhail Khovanov on how this construction can be generalized to quantum $\mathfrak{sl}(n)$. (Received August 07, 2008)