## Braids and Centralizer Algebras

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## Abstract

Abstract: Using R-matrices, one obtains a representation of the braid group  $B_n$  on  $V^{\otimes n}$  for each module V of a quasitriangular Hopf algebra. We study the question when the braid group does generate the whole centralizer algebra, for Drinfeld-Jimbo quantum groups. It turns out that one can find a generating module V of the representation category for all Lie types except  $E_8$  and (possibly)  $F_4$  such that the braid group and at most one more element generate the centralizer algebra.

This talk should be accessible to graduate students.