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Cubic quotients of braid groups and the Links-Gould polynomial

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One of the 'small' quantum (super-)groups provides
an interesting polynomial invariant of knots and links, known as the
Links-Gould polynomial. As opposed to its more famous cousins,
(the Alexander, Jones, Homfly-pt and Kaufmann polynomials), its
natural algebraic counterpart, which should be a quotient of the
group algebra of the braid group was not understood at all. I will present
recent progress on this subject, obtained in a joint work with
E. Wagner. This progress is based on remarkable properties
of the cubic quotients of the braid groups, which are of independent
interest.

Mots Clés / Keywords

Cubic quotients; braid groups

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