

Christoph Koutschan

RICAM, Austrian Academy of Sciences, Austria
christoph.koutschan@ricam.oeaw.ac.at

In knot theory, the colored Jones function is a knot invariant which is an infinite sequence of Laurent polynomials. Through its definition by state sums it is known to be q -holonomic, i.e., to satisfy a linear recurrence of the form $c_d f_{n+d} + \dots + c_0 f_n = 0$, $c_d \neq 0$, whose coefficients c_0, \dots, c_d are bivariate polynomials in q and q^n . We discuss how symbolic computation supports the investigation of this knot invariant.

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