

## On the colored Alexander polynomials

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Multivariable link invariants introduced by Akutsu-Deguchi-Ohtsuki are reconstructed from the universal R-matrix of the quantum group  $\mathcal{U}_q(\mathfrak{sl}_2)$  and are called the colored Alexander invariants. I explain the construction of the invariants, and then compute the invariants for three examples, figure eight knot, Whitehead link and Borromean rings. Moreover, I explain relation to volumes of link-cone manifolds and  $A$ -polynomials of link complements for the above three examples.

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