

Q -polynomial of 2-bridge links in terms of Chebyshev polynomials

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We give a presentation of the Q -polynomial of 2-bridge knots and links in terms of Chebyshev polynomials. It is given by a summation of the products of some Chebyshev polynomials whose parameters are related to those of Conway's normal form of 2-bridge links. We exhibit that the coefficient polynomials of each product, which are in $\mathbf{Z}[d]$ where d is the value of the Q -polynomial of the trival 2-component link, are determined by some curious rules.

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