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Mathematical Physics

Alexander Polynomial Invariants of Torus Knots T(n,3) and Chebyshev Polynomials

A.M. Gavrilik, A.M. Pavlyuk

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The explicit formula, which expresses the Alexander polynomials $Delta_{n,3}$ (t) of torus knots T(n,3) as a sum of the Alexander polynomials $Delta_{k,2}(t)$ of torus knots T(k,2), is found. Using this result and those from our previous papers, we express the Alexander polynomials $Delta_{n,3}(t)$ through Chebyshev polynomials. The latter result is extended to general torus knots T (n,l) with n and I coprime.

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