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$q$-series and tails of colored Jones polynomials.  (English) Zbl 1353.05023

Summary: We extend the table of Garoufalidis, Lê and Zagier concerning conjectural Rogers-Ramanujan type identities for tails of colored Jones polynomials to all alternating knots up to 10 crossings. We then prove these new identities using $q$-series techniques.

MSC:
05A30 $q$-calculus and related topics
05A19 Combinatorial identities, bijective combinatorics
11B83 Special sequences and polynomials

Keywords: $q$-series identities; colored Jones polynomial; tails

Full Text: DOI arXiv

References:

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