

On a simplicial complex of the Alexander polynomials

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Abstract. We detect whether a reciprocal integer polynomial $f(t) = \sum_{i=1}^4 a_i t^i$ with $|a_0| \leq 100$ is realized as the Alexander polynomial of an alternating knot. In addition, we introduce a simplicial complex structure on the set of the Alexander polynomials and study a subcomplex consists of the Alexander polynomials of alternating knots.