

Periodic projections of alternating knots

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Let K be an oriented prime alternating knot that is q -periodic with $q \geq 3$, i.e. K admits a symmetry that is a rotation of order q . We present a proof that K has an alternating q -periodic projection.

The main tool is the Menasco-Thistlethwaite's Flyping theorem.

We present also some results about the visibility on projections of q -freely periodicity of alternating knots.