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Arrow polynomial of periodic virtual knots.

Virtual knot theory is a generalization of classical knot theory. A periodic link is one with rotational symmetry. Murasugi (1988) proved a simple relationship between the Jones polynomial of a periodic link and the Jones polynomial of its factor link. In virtual knot theory, the Arrow polynomial is an analog of the Jones polynomial. This work extends Murasugi's relationship to the Arrow polynomial for virtual periodic links. (Received August 21, 2013)