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## Divisibility of twisted Alexander polynomials and fibered knots

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**Abstract.** We prove that Wada's twisted Alexander polynomial of a knot group associated to any nonabelian  $SL(2, \mathbb{F})$ -representation is a polynomial. As a corollary, we show that it is always a monic polynomial of degree  $4g - 2$  for a fibered knot of genus  $g$ .

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