We study the distribution of the zeroes of the zeta functions in the family of Artin-Schreier curves over the finite fields \( \mathbb{F}_q \), when \( q \) is fixed and the genus goes to infinity. More precisely, we show that the distribution of the properly normalized zeroes in intervals of the unit circle follows a Gaussian distribution. This is done by computing the normalized moments of certain approximations of the number of zeroes in intervals given by the Beurling-Selberg polynomials.

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