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Numerical exploration of the distribution of zeros of the q -Genocchi-Fibonacci polynomial

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Abstract. In this paper, we introduce the concept of the q -Genocchi-Fibonacci numbers and polynomials. We also explore the properties of these polynomials, with particular emphasis on the distribution of their zeros, which is analyzed through computational methods.

AMS Subject Classification (2020): 11B68, 11S40, 11S80

Keywords: Genocchi numbers and polynomials, Fibonacci numbers, Genocchi-Fibonacci polynomials, q -Genocchi-Fibonacci polynomials
