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*Matrices in the Determinant Hosoya Triangle*,  
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**Abstract**

The *determinant Hosoya triangle* is a triangle with determinants of two-by-two Fibonacci matrices as its entries. In this paper we give a combinatorial interpretation of this triangle and explore properties of square matrices embedded in the triangle (in particular, symmetric and persymmetric). Specifically, we explore the eigenvalues, eigenvectors, and characteristic polynomials of these matrices and provide closed formulas for the same in terms of Fibonacci and Lucas numbers.