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Linear dynamics

Abstract: We'll discuss the interplay between the dynamics of a linear map $T \in GL(E)$ and the properties of T as element of the algebra $L(E)$, where E is a Euclidean space.

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The Jones Polynomial from a Goeritz Matrix

Abstract: The Jones polynomial, defined in 1984, is a knot invariant with deep applications in quantum physics and three-dimensional topology. It is also mysterious: it is an open problem, posed by Atiyah, to give a three-dimensional interpretation of the polynomial. We will briefly introduce knot theory and the Jones polynomial, then share an original construction of the polynomial using a Goeritz matrix. Goeritz matrices are combinatorial objects, associated to knot diagrams, that have been studied for almost ninety years.