



istanbul matematiksel bilimler merkezi
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MATRIX FACTORIZATIONS WITH MORE THAN TWO FACTORS

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Abstract

Given an element f in a regular local ring, a matrix factorization of f is a pair of square matrices such that their product is f times an identity matrix of the appropriate size. These objects were originally introduced by Eisenbud to study the hypersurface ring defined by f . We will discuss some of the basic theory of matrix factorizations and then specialize to a generalization where the factorizations have more than two factors.

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