

## MONOMIAL DECOMPOSITION OF HOMOGENEOUS POLYNOMIALS IN VECTOR LATTICES

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**ABSTRACT.** The paper is devoted to the characterization and weighted shift representation of regular homogeneous polynomials between vector lattices admitting a decomposition into a sum of monomials in lattice homomorphisms. The main tool is the factorization theorem for order bounded disjointness preserving multilinear operators obtained earlier by the authors.

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