MONOMIAL DECOMPOSITION OF HOMOGENEOUS POLYNOMIALS IN VECTOR LATTICES

ANATOLY G. KUSRAEV\textsuperscript{1,2} and ZALINA A. KUSRAEVA\textsuperscript{2,3}\textsuperscript{*}

Communicated by R. Drnovšek

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.

References


---

1 NORTH-OSETIAN STATE UNIVERSITY AFTER K.L. KHIKTAGUROV, VLADIKAVKAZ, 362019, RUSSIA.
2 Southern Mathematical Institute – the Affiliate of Vladikavkaz Scientific Centre of Russian Academy of Sciences, Vladikavkaz, 362027, Russia.
E-mail address: kusraev@smath.ru

3 Regional mathematical center of Southern Federal University, Rostov-on-Don, 344006, Russia.
E-mail address: zali13@mail.ru