

SOME NEW ESTIMATES FOR THE POLARIZATION CONSTANT OF $L^p(\mu)$ SPACES

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The aim of this work is to use the ideas of functional analysis, interpolation theory and some well known probabilistic arguments to tackle some problems involving symmetric multilinear mappings and homogeneous polynomials on Banach spaces. In particular, for the *polarization constant* of $L^p(\mu)$ spaces we are able to improve some known estimates and to derive some new ones.

REFERENCES

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