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Linear transformations of orthogonal vector measures. Nondegenerated complete measures.

(English. Ukrainian original) [Zbl 0955.46023](#)

[Theory Probab. Math. Stat. 59, 153-159 \(1999\)](#); translation from [Teor. Jmovirn. Mat. Stat. 59, 148-155 \(1998\)](#).

This work is devoted to some special problems of the theory of vector measures with values in a Hilbert space. Necessary and sufficient conditions are proposed in the paper under which the vector measure μ has the representation $\mu = a(\nu)$, where a is a bounded linear operator and ν is an orthogonal vector measure.

Reviewer: [A.V.Swishchuk \(Kyiv\)](#)

MSC:

[46G10](#) Vector-valued measures and integration

[28B05](#) Vector-valued set functions, measures and integrals

[47B07](#) Linear operators defined by compactness properties

Keywords:

[orthogonal vector measures](#); [nondegenerated complete measures](#); [Hilbert space](#)