

**SOME BANACH SPACES OF MEASURABLE OPERATOR-VALUED
FUNCTIONS**

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Abstract: Some classes of Banach spaces of measurable operator-valued functions which are p -integrable with respect to a certain operator-valued measure are introduced. As a special case one obtains the Hilbert space of square-integrable operator-valued functions known from the theory of stationary processes. The form of the bounded antilinear functional, the denseness of the step functions, and some relations between these Banach spaces are investigated.

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