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The Jung constant in rearrangement invariant spaces. (English. Abridged French version)

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Summary: An upper bound for the Jung constant in a $\theta$-Hilbert space is obtained. A lower bound for the Jung constant is given in the class of rearrangement invariant spaces, too.

MSC:

46E30 Spaces of measurable functions ($L^p$-spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, ideal spaces, etc.)

46B20 Geometry and structure of normed linear spaces

Keywords:

upper bound; Jung constant; $\theta$-Hilbert space; rearrangement invariant spaces