Interpolation of entropy moduli between Hilbert spaces

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Abstract. We present some recent results concerning modern topics in the theory of operators on Banach spaces. It turns out that entropy moduli of operators between Hilbert spaces behave well under the complex interpolation. This is in contrast to the situation in Banach spaces, where by example of Mastyło and Szwedek the entropy moduli do not interpolate well at least in the situation of the real method. In particular, we deliver an interpolation type estimate of entropy moduli as well as some other results on approximation numbers.