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Exact constants for best approximation on the group SU2

In the present paper we study the properties of the least upper bound of the best approximation by algebraic polynomials in metrics L_1 and L_∞ for classes of convolutions defined on the group SU2.

The exact constant for best approximation by trigonometric polynomials in $L_\infty(-\pi, +\pi)$ is studied by many authors. Finally in this paper we proved that for group SU2 analog of the Favard- Akhiezer-Krein theorem does not hold.