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MSC: 41A15

LEBESGUE CONSTANTS FOR SOME INTERPOLATIONAL \mathcal{L} -SPLINES¹

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We find exact values for the uniform Lebesgue constants of interpolational \mathcal{L} -splines that are bounded on the real axis, have equidistant knots, and correspond to the linear third-order differential operator $\mathcal{L}_3(D) = D(D^2 + \alpha^2)$ with constant real coefficients, where $\alpha > 0$. We compare the obtained result with the Lebesgue constants of other \mathcal{L} -splines.

Keywords: interpolation, spline, Lebesgue constant.

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