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Pointwise error bounds for orthogonal cardinal spline approximation. (English)

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Summary: For orthogonal cardinal spline approximation, closed form expressions of the reproducing kernel and the Peano kernels in terms of exponential splines are proved. Concrete and sharp pointwise error bounds are deduced for low degree splines.

MSC:

[41A15](#) Spline approximation

[65D07](#) Numerical computation using splines

Keywords:

[pointwise error bounds](#); [cardinal splines](#); [orthogonal approximation](#); [spline wavelet expansion](#); [Peano kernels](#)

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