An application of the well-known Shannon sampling theorem to approximation theory (and, in particular, to the case of cardinal $\alpha$-splines) is presented.

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MSC:

- 41A15 Spline approximation
- 41A30 Approximation by other special function classes
- 94C10 Switching theory, application of Boolean algebra; Boolean functions (MSC2010)
- 30D15 Special classes of entire functions of one complex variable and growth estimates

Keywords:

cardinal $\alpha$-splines; Shannon sampling theorem