

$(0, 1, \dots, m-2, m)$ INTERPOLATION FOR THE LAGUERRE ABSCISSAS

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摘要

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$(0, 1, \dots, m-2, m)$ INTERPOLATION FOR THE LAGUERRE ABSCISSAS

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Abstract A necessary and sufficient condition of regularity of $(0, 1, \dots, m-2, m)$ interpolation on the zeros of the Laguerre polynomials $L_n^{(\alpha)}(x)$ ($\alpha \geq -1$) in a manageable form is established. Meanwhile, the explicit representation of the fundamental polynomials, when they exist, is given. Moreover, it is shown that, if the problem of $(0, 1, \dots, m-2, m)$ interpolation has an infinity of solutions, then the general form of the solutions is $f_0(x) + C f_1(x)$ with an arbitrary constant C .

Key words

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