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## ON A QUADRATIC FOURIER TRANSFORM WITH APPLICATIONS TO SIGNAL THEORY

*Approximations of signals are considered by integer shifts of the Gauss functions-quadratic e:xponentials. A new method is proposed for finding nodfunction for this problem which is based on solutions of cut systems of linear equations.*

*Keywords: interpolation, Gauss functions, nod functions, Jacobi theta-functions, digital signals.*

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