

Abstracts

An accurate algorithm for nonuniform fast Fourier transforms (NUFFT's)

*Q.H. Liu and N. Nguyen. "An accurate algorithm for nonuniform fast Fourier transforms (NUFFT's)." 1998 *Microwave and Guided Wave Letters* 8.1 (Jan. 1998 [MGWL]): 18-20.*

Based on the (m, N, q) -regular Fourier matrix, a new algorithm is proposed for fast Fourier transform (FFT) of nonuniform (unequally spaced) data. Numerical results show that the accuracy of this algorithm is much better than previously reported results with the same computation complexity of $O(N \log_2 N)$. Numerical examples are shown for the applications in computational electromagnetics.

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