f G f

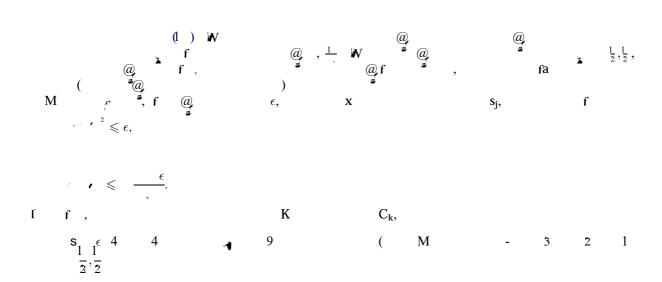
 $\stackrel{\wedge}{\boxtimes}$

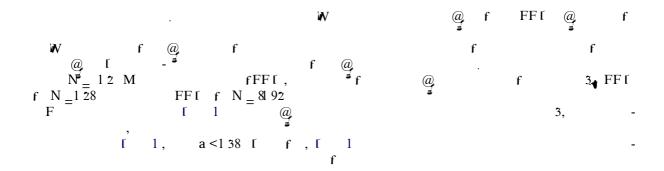
$$\kappa = \pi^2 \lambda v^2 N^2 = \pi^2, \quad \lambda^2 v^4, N^2. \qquad 14$$

$$\frac{\tilde{G}}{\kappa} = \frac{vN - \lambda \pi}{\kappa} = \frac{\pi^2 + \lambda v^2 N^2 + \epsilon^2 - 2 + \epsilon \pi^2 - \lambda^2 v^4 N^2}{\kappa} + \epsilon^2$$

$$\times = \tilde{\ell} = \frac{\lambda^2 v^2 N^2 + \pi - v \epsilon^2}{\kappa} = \frac{2 + \pi + \lambda^2 v^3 N^2}{\kappa} + \epsilon^2$$
1

$$\tilde{\ell}_{\mu} = \tilde{\ell}_{\mu} = \frac{\lambda_{\mu} \pi^{2}_{\mu}^{2}}{\kappa}$$
.





5. Conclusions

 $\frac{1}{2}$ W 8 8-414 ($\frac{1}{2}$ W)-239 (8) $\frac{1}{4}$ 3 f ,



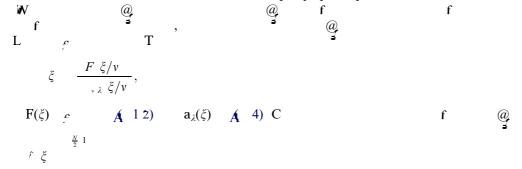
Then

$$E_{\infty}\leqslant 1 \quad \hat{\varphi} \propto \quad \frac{1}{C_{\uparrow},\alpha}, \quad C_{\uparrow},\alpha \hat{\varphi} \quad , \quad \alpha .$$

$$f\hat{\varphi} \quad f \quad & & \\ &$$

(3)
$$FFI$$
 $F(\xi_j)$
 $F(\xi_j)$

A.2.2. Fast evaluation of the Fourier series at unequally spaced points



, ∞ $\infty\infty\infty$ $\infty\infty\infty\infty$ $\infty\infty$ ∞ ∞ ∞

$$f(x, y) = \int_{-\infty}^{\infty} \hat{G} \left(\frac{\xi}{v} \right) \tilde{\mathscr{P}}^{v} \left(\xi - \xi, \frac{\xi}{v} \right) dx$$

$$\hat{G} \xi = \frac{\frac{N}{2} \cdot 1}{\frac{N}{2} \cdot \frac{N}{2} \cdot \frac{1}{N}} \stackrel{2\pi, \xi}{N}.$$
 A .21

$$(A 19) \qquad A 2_{\bullet})_{\mathcal{F}}$$

$$(A 19) \qquad \sum_{\infty}^{\infty} \hat{G} = \gamma_{\lambda} vN\tilde{r} \qquad \tilde{r} = \tilde{r} \qquad \tilde{r} = N\xi, \lambda, \lambda$$

$$(A .22)$$

$$\hat{f}$$
 ξ $\hat{G} = \frac{\hat{G}}{v} \gamma_{\lambda} v \xi$. A .23

N
$$\hat{G}$$
 \bar{v} \hat{G} \bar{v} \hat{G} \hat{G}

Algorithm 2.

(1) C
$$\hat{f}$$
 f $\hat{G}_{\overline{\nu}}$ (2) A FF I $\hat{G}_{\overline{\nu}}$ (3) C \hat{f} ξ $\hat{G}_{\overline{\nu}}$ (4 24)

A.2.3. Evaluation of unequally spaced FFT at unequally spaced points

Algorithm 3.

(1) C

$$\mathcal{P}^{\nu} \qquad \qquad \gamma_{\lambda} \quad \nu N \quad \gamma_{1} \quad \overline{\nu N} \qquad , \qquad \frac{\nu^{2}N}{2}, \dots, \frac{\nu^{2}N}{2} \quad 1$$
(2) \(\frac{\nu}{2}, \frac{\nu}{2}, \frac{\nu}{2} \\ \frac{\nu}{2