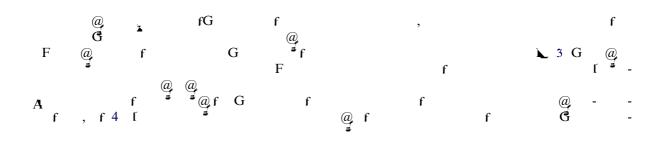
## lfG f

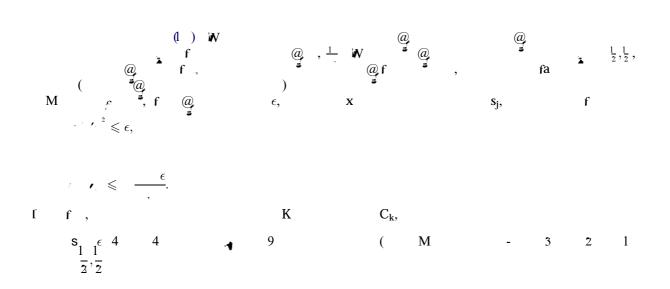
숬

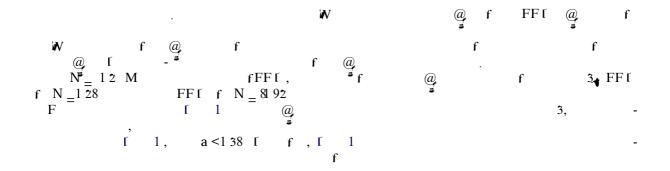


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$$\kappa = \pi^2 \lambda v^2 N^2 = \pi^2, \quad \lambda^2 v^4, N^2 . \qquad 14$$

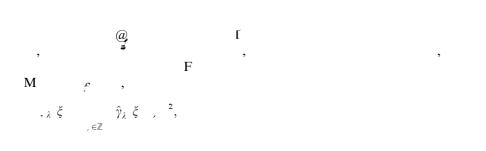
ſ,





5. Conclusions

W -8 8 8 W 8 8-41 4 (W)-239 (8) → 3 f ,



A .4

,

@ f

$$\mathbf{A} \qquad \mathbf{f}_{\mathbf{F}}^{\mathbf{F}} \quad \mathbf{f} \qquad \mathbf{A} \quad 9) @$$

$$\mathscr{P}^{\mathbf{v}} \qquad \sum_{\infty}^{\infty} 2\pi \xi^{2} \mathbf{v} N \xi \ \hat{\gamma}_{\lambda} \xi \ \xi, \qquad \mathbf{A} \quad 1_{\mathbf{f}}$$

$$\mathbf{f} \qquad \mathbf{f} \qquad \mathbf{f}$$

μ. @. f<sub>A</sub> 13) , ż ξ @. \_\_\_\_\_ Then

$$E_{\infty} \leq 1 \quad \hat{\varphi} \propto \frac{1}{C_{\gamma}, \alpha} \sum_{j \in \mathbb{Z}} C_{\gamma}, \alpha \hat{\varphi} , \alpha .$$

$$f_{\gamma} \approx f_{j} = 1$$

$$f_{\gamma} \approx f_{\gamma} \approx 1 \quad \beta \approx 1 \quad$$



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

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$$(,) \quad \sum_{\infty}^{\infty} \hat{G} \; \frac{\xi}{\nu} \; \tilde{\mathscr{P}}^{\nu} \; \xi \; \xi, \qquad \mathbf{A} \; \cdot \mathbf{2}_{\mathbf{A}}$$

$$\hat{G} \xi \xrightarrow{\frac{N}{2} 1} \frac{\frac{1}{2} \frac{1}{\sqrt{N}}}{\sqrt{N} \frac{2\pi, \xi}{N}} A .2$$

$$\begin{array}{c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ \end{array} \begin{array}{c} & & & \\ & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ &$$

$$\hat{f} \quad \xi \quad \stackrel{\circ}{\underset{\in \mathbb{Z}}{}} \hat{G} \quad \frac{1}{v} \quad \gamma_{\lambda} \quad v\xi \quad . \tag{A} \quad .23$$

N 
$$\mathbf{f}\hat{\mathbf{G}} = \frac{1}{\nu} \mathbf{f}$$
 ( ) ,  
 $\frac{1}{\nu} \mathbf{f}$ ,  $\frac{N}{2} \leq \nu \leq \frac{N}{2} \mathbf{1}$ ;  
A  $\mathcal{Q}FF\mathbf{f}$   $\mathbf{f}$   $\mathbf{f}$ 

Algorithm 2.

(1) C  $\tilde{r}$   $\hat{f}$   $\hat{f}$   $\hat{f}$  (2) A FF [  $\hat{G}_{\overline{v}}$ (3) C  $\hat{r}$   $\xi$   $\hat{f}$  (3) C  $\hat{f}$   $\xi$   $\hat{f}$  (4 23)

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

f f f f f f 
$$f_{4}$$
 14),  
 $f_{1} \in \frac{1}{2}, \frac{1}{2}$  f  $\xi \in \frac{N}{2}, \frac{N}{2}$  f

Algorithm 3.

W

(1) C

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