f G f

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

$$\underbrace{\frac{\partial}{\partial x}}_{N} = \underbrace{\frac{1}{4}}_{N} = \underbrace{\frac{\partial}{\partial x}}_{N} = \underbrace{\frac{\partial^{2}}{\partial x^{2}}}_{N} = \underbrace{\frac{\partial^{2}}{\partial x^{2$$

$$\kappa = \sqrt{\pi^2 \lambda v^2 N^2}, \quad \pi^2, \quad \lambda^2 v^4, N^2, \dots$$
 [1.4]

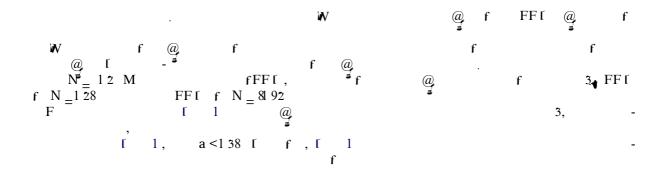
$$\frac{\tilde{G}}{\kappa} = \frac{vN - \lambda \pi}{\kappa} = \frac{\pi^2 + \lambda v^2 N^2 + v^2 + 2 + v^2 \pi^2 + \lambda^2 v^4 N^2}{\kappa} + v^2 + \frac{\lambda^2 v^2 N^2 + \pi + v \pi^2}{\kappa} = \frac{2 + \pi + \lambda^2 v^3 N^2}{\kappa} + \frac{\lambda^2 v^2 N^2 + \pi + v \pi^2}{\kappa} + \frac{2 + \pi + \lambda^2 v^3 N^2}{\kappa} + \frac{1 + \kappa \pi^2 + \lambda^2 v^3 N^2}{\kappa} + \frac{1 +$$

$$\tilde{f}_{i} = \tilde{f}_{i} = \sqrt{\frac{\lambda_{i} \pi^{2}_{i}^{2}}{\kappa}}$$
 .

 I
 f
 (3)
 (1)
 f

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 4
 199 84 61 [0 9626 44 9 9626 81 2283491 16 [() [FI 4 4()-2 31 (433)-3331 (@]FI 138 06443 [3 -E]

$$(1) \ \ W \qquad \qquad \underset{s}{\overset{(1)}{\otimes}} \ \ \underset{s}{\overset{(1)$$



5. Conclusions

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



Then

$$E_{\perp} \leqslant 1 + \hat{\varphi} \propto_{\perp} \frac{1}{C_{\uparrow, \uparrow}, \infty} \qquad C_{\uparrow, \uparrow}, \alpha, \hat{\varphi}_{\downarrow, \uparrow, \downarrow} \propto_{\perp}$$

$$f\hat{\varphi} \qquad f \qquad Q_{\downarrow}, \qquad 1 + \hat{\varphi} \propto_{\perp}$$

$$Q_{\downarrow} \qquad Q_{\downarrow} \qquad$$

- (2) C
 - $F_{/}$ $\xi_{\cdot, \cdot}$ $\stackrel{rac{vN}{2}}{=rac{vN}{2}} 1$ $\mathscr{P}^{v} = \sqrt{2\pi} \left[rac{\xi_{\cdot}}{2}
 ight]$

A 16

f

- (3) FFI $F(\xi_j) \qquad , \xi_i$
- A.2.2. Fast evaluation of the Fourier series at unequally spaced points
 - f T
- - - $\xi = \frac{F_{\lambda} \xi/v_{\lambda}}{\int_{\lambda} \xi/v_{\lambda}},$
- $F(\xi)$ f $(4 \ 12)$ $a_{\lambda}(\xi)$ $(4 \ 4)$ Cf $\frac{N}{2}$ 1

$$\hat{G} = \frac{\xi}{v} \left[\tilde{\mathscr{D}}^{v} \right] \xi = \xi,$$
 A $\cdot 2_{\bullet}$

$$\hat{G}_{\zeta} = \frac{\frac{N}{2} \cdot 1}{\frac{N}{2} \cdot \frac{1}{\sqrt{\lambda}} \cdot \frac{1}{\sqrt{N}}} \cdot \frac{2\pi, \xi}{N}.$$

$$A \cdot 21$$

$$\hat{f} = \int_{-\infty}^{\infty} \hat{G} = \frac{1}{\nu} \gamma_{\lambda} \nu \xi_{\lambda}$$
 (23)

Algorithm 2.

(1) C
$$\hat{f}$$
 \hat{f} $\hat{G} = \hat{G} = \hat$

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

Algorithm 3.