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$$i = j \implies [w] = N$$

$$(i-j) \Rightarrow [W'] = N$$

$$W = e$$

$$V(i-j) = V(i-j) = V(i-j) = V(i-j)$$

$$i \neq j \Rightarrow \sum_{k=1}^{N-1} \left[ w^{k(i-j)} \right] = \frac{w^{N(i-j)}-1}{w^{N(i-j)}} = 0$$

$$\Rightarrow \overline{F}_{\nu}F_{\nu} = \nu \Gamma = F_{\nu}\overline{F}_{\nu}$$

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