

$$y(l, k) = \sum_{k'=0}^{\frac{N}{2}} \frac{\underbrace{A_{l,k'} \sum_{n=0}^{N-1} \exp \left(j \left(\frac{2\pi n(k' - k)}{N} + \theta_{l,k'} \right) \right)}_{=0} + A_{l,k'} \sum_{n=0}^{N-1} \exp \left(-j \left(\frac{2\pi n(k' + k)}{N} + \theta_{l,k'} \right) \right)}{2}$$