

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