

$$\mathbf{a} \in \mathbb{Z}_q[x]/(x^N + 1)$$

$a_0$	$a_1$	$a_2$	$\dots$					$\dots$	$a_{N-3}$	$a_{N-2}$	$a_{N-1}$
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(1, k)-camada NTT incompleta

$\mathbb{Z}_q[x]/(x^{N/2} - \psi^i)$						$\mathbb{Z}_q[x]/(x^{N/2} + \psi^i)$					
$\hat{a}_0$	$\hat{a}_1$	$\hat{a}_2$	$\dots$					$\dots$	$\hat{a}_{N-3}$	$\hat{a}_{N-2}$	$\hat{a}_{N-1}$

(2, k)-camada NTT incompleta

$\mathbb{Z}_q[x]/(x^{N/4} - \psi^i)$	$\mathbb{Z}_q[x]/(x^{N/4} + \psi^i)$	$\mathbb{Z}_q[x]/(x^{N/4} - \psi^i)$	$\mathbb{Z}_q[x]/(x^{N/4} + \psi^i)$
$\hat{a}_0$	$\hat{a}_1$	$\hat{a}_3$	$\dots$

(l, k)-camada NTT incompleta

(k, k)-camada NTT completa

Cada célula:  $\mathbb{Z}_q[x]/(x \pm \psi^i)$

$\hat{a}_0$	$\hat{a}_1$	$\hat{a}_2$	$\dots$					$\dots$	$\hat{a}_{N-3}$	$\hat{a}_{N-2}$	$\hat{a}_{N-1}$
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