$$n = exp(O(k))$$

$$n = subexp(k)$$

$$n \ge \Omega(k^2)$$

$$n \ge \tilde{\Omega}(k^3)$$

$$b \in 0, 1^k \to x \in 0, 1^n$$

$$(q, \delta, \epsilon)$$

$$\triangle(x, Enc(b)) \le \delta n$$

$$Dec^x(i) = b_i$$

$$2^{\Omega(k)} \le n$$

$$n \le exp(k^{o(1)})$$

 $k^{\frac{1}{q+1}}$ 

 $\eta$ 

k

n



Li

K

n

$$(3, \delta, \epsilon)$$

$$n \ge \tilde{\Omega}_{\delta,\epsilon}(k^3)$$

$$H_1, H_2, \cdots H_k$$

$$H_i \subseteq \binom{[n]}{q}$$

$$|H_i| \ge \delta n$$

$$\sum_{j \in C} x_j$$



$$pprox \mathbb{Z}_m^h$$



$$val(\psi_b) = 1$$

$$\psi \to A \to algval(\psi)$$

$$val(\psi) \le algval(\psi)$$

$$algval(\psi) < 1$$

$$C \in H$$

$$\sum_{j \in C} x_j = b_c$$

$$\psi_b$$
 is  $\sum_{j \in C}$ 

$$xj = b_i, i \in [k], C \in H_i$$