

21.1.16 week מספרים - 4 בעת

1.  $C > 1$   $|R| = m = n$   $L = n$   $G = (L, R, E)$   $\mathbb{F}_2^n$

$$\frac{|M(S)|}{|S|} \geq \frac{C}{2} \text{ for } |S| \leq \delta n, S \subseteq L$$

$\dim C(G) = n - m$  Weak-LTC  $C(G)$   $\mathbb{F}_2^n$   $v \in \mathbb{F}_2^n$   $\epsilon > 0$  Weak-LTC  $C \subseteq \mathbb{F}_2^n$

0.1  $\leq \frac{\text{Fraction of the } m \text{ constraints violated by } v}{\text{dist}(v, C)} \leq \epsilon$

מבין אלו, הכוללים האנטי-מקומיים  $v$  Strong-LTC  $v$   $\mathbb{F}_2^n$

2.  $\text{dist}(v, C) \leq \epsilon$   $\epsilon > 0$  Strong-LTC  $\mathbb{F}_2^n$   $v \in \mathbb{F}_2^n$   $\text{dist}(v, C) \leq \epsilon$

3.  $G = (L, R, E)$   $C(G)$   $\mathbb{F}_2^n$  Strong-LTC

$\text{dist}(x, C(G)) < \frac{\epsilon}{2}$   $x \in \mathbb{F}_2^n$

4.  $G = (L, R, E)$   $\mathbb{F}_2^n$   $\text{dist}(x, C(G)) < \frac{\epsilon}{2}$

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21.  $G = (L, R, E)$   $\mathbb{F}_2^n$   $\text{dist}(x, C(G)) < \frac{\epsilon}{2}$

22.  $G = (L, R, E)$   $\mathbb{F}_2^n$   $\text{dist}(x, C(G)) < \frac{\epsilon}{2}$

23.  $G = (L, R, E)$   $\mathbb{F}_2^n$   $\text{dist}(x, C(G)) < \frac{\epsilon}{2}$