(4) 1) 5 : set containing & largest magnitude elements of o

hence S is not same as spansity. Error bound also increases as  $C_1 \otimes C_2$  are increases  $\neq$  spansity increases.

2)  $\mu(\Psi, \Phi) = \sqrt{n} \max_{1 \leq j \leq m} \left| \langle \Phi^{(j)}, \Psi_i \rangle \right|$ 

L. This is a function of m C1, C2 are increasing for of  $\mu(\underline{\mathcal{I}}\Upsilon)$  which is in twen a f<sup>n</sup> of m.

Intuitively it feels that as more the number of measurements will result in better reconstruction.

- 3) Theorem 5 is more useful than theorem 5A, as it gives the same ever bounds as theorem 5A but for a greater range of ISI, naximum and minimum Eigen values of (AT) AT
- 4) 11y- \$\Psi \psi \01\12 \le \2 \quad 10 11\10 \quad 12 \le \10 \quad 10 \ we measure  $y = \Phi x + \eta$ thus 117112 < E

14, cos TIATA UNITA

(1-80) 11011" & 11011 & (1+60) 101" 4 0 -1pm

Thus & is an upper bound on the magnitude of noise vector e=0 ⇒ n=0

But ours noise has non-zero magnitude. Setting &=0 only works if there is no noise