Secture -28

-> ATA is positive definit!

-> Simila matrices

 $\times^T (A^TA) \times = (A \times)^T (A \times) = |A \times|^2 > 0$

Homes positive definit

Similar Matrix

ALB as non motion

AKBao Simila if for Somo M

B= M-IAM

=> Simila modeix have some eigen Voluce.

 $A \times = \times \times$ $SD = M^{1}AM$

A M M-1 x = >x

⇒ (M-'AMAM-'× = >M-'×

> BM-1x)=>M-1x)

So sis the eight volued O.

but eiger Vertur is met some

[Eiga Victor 4 B) = M-1 (Piga Victor A)

BAD Case $\lambda_1 = \lambda_2 = 4$ Small M-1 [40] M = [40] Big Landy [4] -> Josedan form Jordan Block Every San metri- A is Simil- of to a Joordan meterix J # block = # 21g- Vector