Summary:

LTE- Loud Truncation From

15 substituted into the difference equation (16) for J=1,2,..., m. For a given discretization we write

AU-FO

and for LTF

Alt=F+T => Alt-F=T

Subtral:

(AUF) - (AQX) = 7

Global Error:

3 AE - T

=> E = A-1 T

= 11E11 = 11A'Il

a NEW & NA' 11 11711

The second secon

H I'm a bounded away from

While we want is the error to go to you as how. So, we need a but more. If

$$A^h E^h = -\tau^h \Rightarrow E^h = -(A^h)^r \tau^h$$

as here we need $||(AN)^{-1}|| \leq C$

Note: A is invertible.

Consistency - 112411 - 0 as how or if 112411 to Chien country

Shakah 11 (Ah) 11 4 C

Consisting + Stability = Convergence

So, LTE can be some as long as Hill & Ch?

Asid: FE d FV methods use function representation

| u"= F | u(0)= d | u(n- }

From. Assume N as Pile)

- Lemai ambituation of basis function

is the principal lines some

Me Vegine opts for the use of induced norms (page tro)

$$= 1 \quad ||A|| = \max_{X \in \mathbb{R}^m} \frac{||Av||}{||x||} = \max_{X \in \mathbb{R}^m} \frac{||Av||}{||x||^{\alpha}}$$

4

Back to statily in the 2 norm:

We will prove the degeneralise are the or follows ...