From last time

$$B_{-}(\hat{U}_{9}\hat{U}) = \int_{-}^{-} (\hat{U}_{n} + \hat{U}_{n} + \hat{U}_{n}$$

$$-\frac{2}{3}\frac{1}{3}\frac{1}{3}$$

$$-\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}$$

$$-\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}$$

$$-\frac{1}{3}\frac{1}\frac{1}{3}\frac{1}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}$$

- Riemann Soldin I-8 5,7 70 Kiemann soldier introduces some damping

 $T_{2}=-\xi T \left[\delta\right] \sqrt{1+\xi T} \left(\delta n v + \varepsilon T v \right)$ $= -\xi T \left[\frac{\delta}{k}\right] \left(\sqrt{1+\xi T} v + \frac{\delta}{k}\right) \left(\sqrt$

As we can see the element jumps introduce some damping terms to the system! So, the DG formulation naturally dissipates energy even for lossless domains (damping coefficient = 0)

Essential BC:

$$P(G,N) = -G(G,N)dS - ET GN(V-V)dS$$
 $P(G,N) = -G(G,N) - ET GN(V-V)$
 $P(G,N) = -G(G,N) - ET GN(V-V)$
 $P(G,N) = -G(G,N) - ET GN(V-V)dS$
 P

$$\frac{1}{2} \int_{-\infty}^{\infty} \int$$

Notical BC:

B(\(\vert_{\pi}\)) \(\vert_{\pi}\) \(\vert_{\pi}\

 $B(\bar{u},u) = - u \leq n$ $E^{0} = - u \leq n$ E^{0}

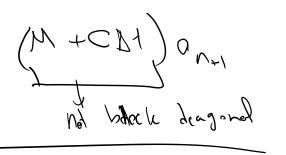
as we can see because of interior forms C matrix to not blockdagonal :: We cannot selve one element at a time

Well & Ma + Ca + Ka = {

Justin Ma + Ca + Ka = {

Justin Mand - 2an } + C (Ont) - an } + Kan = Fn

(M + Cht) On = RHP



= RHS

With 1F formulation, it's better to use an implicit solver as we don't lose anything

Next time, I'll discuss how to address this issue