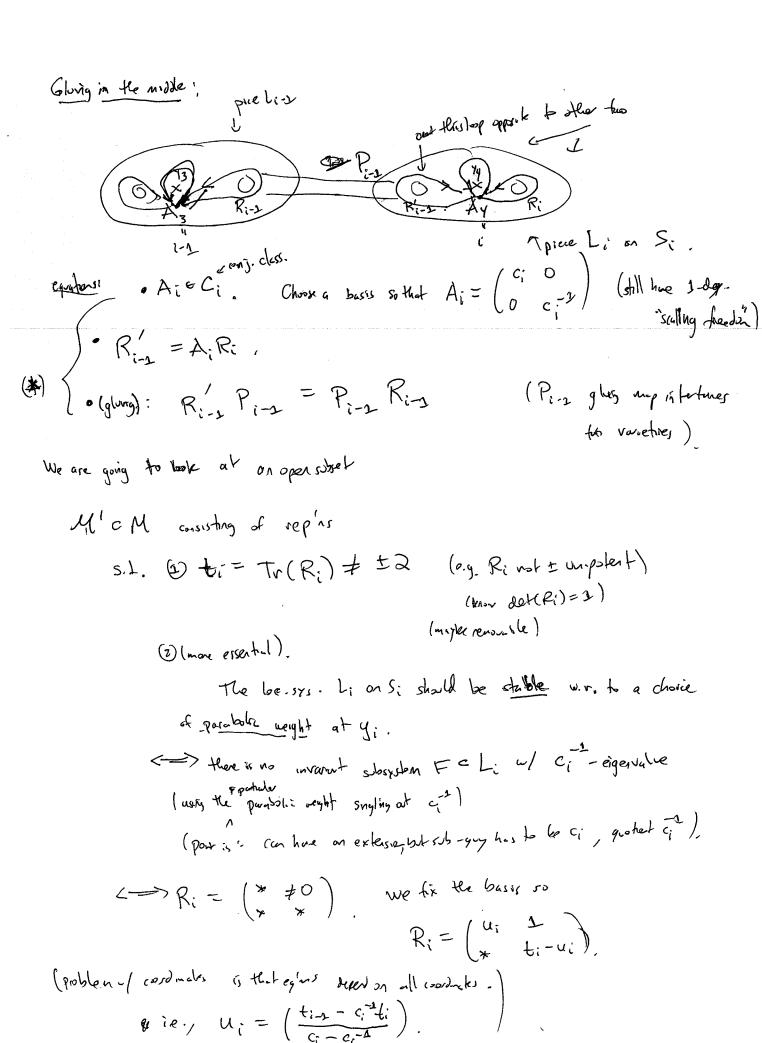
C. Sups-1 Character ranely M= Moduli of Rep (75) ( ) e.g. \* Frem suffer. M= MBlesti) Dul 2 pplr- 2t M. DOM: for agod epothector He F. Let D= UD; be the corp! diviso suplant cplp: vetus, ) Di suplant DI = () Di The bopy to of DAM is a mut-Q: Moto, Dat for MB! Answer for X = P' ( 241, - 9 x ). C. EStr oni closser. M=M(X, SLz; C1, -, Ch) ( reg. boundy more down orand y: ) = 16m c.,-, cu ( Ty ( X), SLz )/myy, cy.  $C_i = conj. classes of <math>\begin{pmatrix} c_i & 0 \\ 0 & c_i^{-2} \end{pmatrix}$   $\omega / c_i general.$ The M = smooth These character varieties are had to understand. (Gross-Hackey-level-Kankerch ) general theory?)

Our approach: define algebraic Ferchel-Nieben coordinate, × / × / × / × / each; thee holed sphere" (so ends have two "x", middle have one)



$$V_i = \begin{pmatrix} 1 & 0 \\ u_i & 1 \end{pmatrix}$$

( Can debré a constant motion of trace ti):

$$T_{i} = \begin{pmatrix} 0 & 1 \\ -1 & t_{i} \end{pmatrix}, & R_{i} = U_{i}^{-1} T_{i} U_{i}$$

Calculate egins (\*):

$$R_{i-1} = A_i R_i = A_i U_i^{-1} T_i U_i$$

$$= U_i^{-1} (U_i A_i U_i^{-1} T_i) U_i$$

$$= Tr(R_{i-1})$$

$$U_i A_i U_i^{-1} T_i = (0)$$

$$= 1$$

 $U_i A_i U_i^{-1} T_i = \begin{pmatrix} 0 & c_i \\ -c_i^{-1} & t_{i-1} \end{pmatrix}$ 

(To proceed, need + chose a JA:)

Define 
$$A_i^{1/2} := \begin{pmatrix} c_i^{1/2} & 0 \\ 0 & c_i^{1/2} \end{pmatrix}$$

Then 
$$(1) = A_i^{1/2} T_{ia}A_i^{-1/2}$$

Concluse: Ri-1 = U= Ai/2 T. Ai Ui.

Plug into gluing equata: ( recalling R=2 = Vi-1 Ti-1 Vi-1)

Cluring equation becomes:

WiAitin Ai Vi Pin = Pin Vin Tin Uin.

autotype, AU; on lot and Uta on right;

Ti-2 Pin Ui Pin Uira = Fin Ui Pin Uix Ti-1

So equates benes. Ti-2 Qi-2 = Qi-2 Ti-1; decorpted. (the paint is: respect have very Qi-a instead of Pita.  $M' = \{(t,Q)\}_{t \neq t \neq 2}^{2k-3}$ "Hace "glus pour" FN 120) 5: TQ=QT., QEPGL2 ( ? ? ) ( P' 9')  $P'=-\frac{1}{2}, \quad g'=p+q+q \quad so \quad Q=\left(\begin{array}{cc} P & 2 \\ -2 & p-q+ \end{array}\right) \quad \sqrt{\begin{array}{cc} P'=27 < |P'| \\ Q=1 & 0 \end{array}}$ det Q 7 0: p2 + tp2+q2 + U. Thus, M = {(+,Q) = } (+,Q) = {+ GA -1= 2} (P:9) = P1, p2+tpq+q2+0) 2 +2 20 complement of these divisions. X+,Q) ): Da ( D C) (principle: the stock which

Prof: for some reasons as

Change DaM:

DaM: DaM.

Prof: for some reasons as

Change Da

Change DaM.

Prof. for some reasons as

Change Da

Cha

to cargarets needs as two aftert parts (red + blan up me to get 5NC, to output two differt pad). Another gen propost govern though  $Da \left( \overline{BEI} \right)^{k-3} = S^{2(k-3)-2} = Da M_{Betti}$ (royholer: if  $D_0 = 5^{\frac{1}{2}}$ , then  $X, \partial X \approx D^2, 5^{\frac{1}{2}}$ , by  $D^2 = 5^{\frac{1}{2}}$ , then  $D^2 = 5^{\frac{1}{2}}$ . (exaple from 4 yrs ago was P'14 phr.) General conjecture: { Higgs brides} ) (" link at \( \infty \) | 4 know (Ink)4 tuo maps are the rave; (m)D343 = 2 2N-7 60 fle duty mp interhies there retial maps. (. EHE C

We shad this is Diffe is ≈ 5°N-1 →> DDDHB. for Slz on P' \ {y,, -, yn}, don't show dugram commute, agentative sion of the "P=W" anyeder of Doncyi. -. 1 weight fillades "pover lear f. Huter on MB on MH " ( known: lovest prece of agent to the te cases for (P=W should play that pull backs of generalis cohomology classes as rase color class) This is a lapocal enhancement. Rush: My CMB destrible soit has some motive; in particle the MHS on there are completely differt; some durly Ste- then. e-7- My contains the motion of Synk(E); MB videp. of E. Hother drectur of me shall comesp. + sta- of other. [Kaprunov]: Are there good ratural compactifications? Maybe not thylu gens might be possible.

(Rh.2 local sys. entropy determed by conj. closes of monology.

That mas the key the that dun't make for n 22....