

- 3) Intro to Shopes
- 4) NMHV
- 6) Bonus Comments

5) 9

- · Considered talking about relation between Cirlnik) & Amps of Telles on Yongian symmetry
 - 7 but world just result in a punchline of norty integrals over weird spaces, no grand insight unless Mon one already really familier with Grassmanians.
 - · Instand, I won't to expand on Issa's tak, and push the geometric interpretation to its limit
 - · Will notice how we can treat not just our variables but our whole Angelotades geometrically, connect it with very intitue pictures to give us new peripertue on the analytical relations we've already encountered, and even clearing our discussion of sparious poles and towards
- 2) Cre'll frome our invertigation in the context of G-pt WMHV amp AGC 1+2-3+4-5+6-]
 - · Androw toughton that An = An II Risk

 Cisilaling: 5"(Air Ciklm) + cyc)

 Constitution Coffee since the alle ly mont to understand bottor, since they also

Aur up in our loops as products on Y maring Ptcy as Issac mentrumed.

- · What do are known about them? a) Cyclic shrowing 5) reflection symmetry c) 6-term intentity
 - e) Hanted -t, but we divin't really who yest: [23,4,6,1] +(2,3,4,5,6)+(2,4,5,6,1]=[3,1,6,5,4,7+[3,2,1,6,5])

 ...

 Moreover (2,4,5,6,1)=[3,2,1,5,4]
 - () comes from inversage of A under Different BCTW Mitts, [2,3) = [3,2) in our case
- =) But the brocket relation is more fundamental than a partition appointed they are incorrectly that have to hold of 6 morphism turburs, as long as any month compression of momphism,
- Co-1) have a blotten that looks like our relative above. But mour rose, we have 4-composed tooker, not 5, Conce mossage our representation a lit? Let 2 75= (xi.re)

 Su(4) morrort, TA on anything a resuman & externs

Turnsont the greather got schooler, but it's not our 5-bracket sine ours is purely bosonic contractions, and fermour weight, not intertured within the orghestorologis,

So integrate them ont! Cishla74 BAR If you store hard, can convince yorself that [ijkely]: 4! Iding Lo,;; (cl) (o, m,;); (c) tanta == (000 Baseldon so relited to Siduter, Cit not. bulot sit? Note that 2,27 tizi incorrere at all 76 except for our reference vector . 12,60p4 \ 100 Ly we've seen this left. $Z_{1/4}$: $Y_{13}^2 = \frac{Z_{1}-I_{1}i_{1}i_{2}-I_{1}i_{3}}{Z_{1}-I_{1}i_{3}} = \frac{Z_{1}-I_{1}i_{1}i_{2}-I_{1}i_{3}}{Z_{2}-I_{1}i_{3}} = \frac{Z_{1}-I_{1}i_{1}i_{2}-I_{1}i_{3}}{Z_{2}-I_{1}i_{3}}$ 2000 reforme Gituister (g. 10) wa any to Grade ap) ! mayore distance Coture of yiely =7 both prost-tre escapether reterme, both builtant of only historyt ongle brackets, so extrapolitie; if yis gres dut between pts yi by; the latte ours gives the volume of some object defined by 5 pts in op4. Let's mohent present like what it buys my! 3) Real Young Kenz technology: Who ramboulars how to call oren of trough? 16% => lot or release little more right tipe ted by. Cy went determinals. extly getrivolity or provide it as a feative, let 30 the latter, as will be clear aby in a womants let $W_{12} = \begin{pmatrix} \chi_1 \\ \gamma_2 \end{pmatrix}$, $\chi_{12} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$, $\chi_{12} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$, $\chi_{13} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$, Now it's clear that down is just I fall contact is it & 7, but it we introduce the standard over out ATi, I incorrect order ope, aristicu; movelo the origin, he're che! Conce get the dut product, into Graphet Born too? Yes, with dual variables! Let ZZ by lines in W- space. Alme o set of juts constrained s.t. ZZWZ=0 informas I construct is I dock, line Teach Wiz lies of intermedian of 2 lines, es wir needs to satisfy to Wiz = to Wiz = 0 thurstong, are ford Wiz= < +, 7c, 7a7 = Ezzu Fe Za

-. ATT = 1 (abc) ((a,b) (0,c,a) = (a,b,c)

he can seneralize easily to the volume of an normalize in opin [7: 1, ..., time] = + (10,10,..., int. 7)

Lo,in,..., in 7... (0, int. 11,..., inc.)

[nx 1 2 s comp who about the nx 1 Coundary of the singlex since set of his atology incolone relita 2: Wz=0 spons (n-1) dim andopaço f apon

looking back of 5-6mbet, it's wanten! to integrand. ... NMAN free comps are literally) ast man of Galaceral Evalety is 3 st some volume in april (integraled)

4) As MHV C1,2,3,4,57: As & C1,2,3,4,5) , singlest Case

Next nontanol? AC Eliziny, (6) & CZ, 3, 4, 6, 1) + CZ, 3, 4, 5, 6) + CZ, 4, 5, 6,1) (4,6,1,17,4,12,13,14) (6,2,3,4) (4,3,6,2) (2,4,5,6) (6,4,2,4) (ever species for species fo

is smoot 3 what 4 samps . But we key 3 & shapes? Kan Borthy duty Let toplay sometim? recell that each by morning of ten (1-1,113-13) in denound (5) gre, a level pule. able somety like (1,2,4,6) is non-board & sparrows, never to have for squares poles holder, a each term. some As ma mint be local, the pole, must come! , I thy do as shown it spers, above, But each denom a Graduet is associated as worked in polytype, it soupher take I extra up-trop, that must disappear in our simpley than sluing. We attack this by studying the seconders ermalent of the partral fronting that gove role to our spirms pule discussion any bedeadon A Notelieb fulk >) look = & georetin decogosition as triongulations of our Mater polytup!



