Busic LLC: This Some x 200 (E), F/QH Couj (Boxic LLC): There is a fruite-to-1 mols
[111 (C) -> \(\frac{1}{2} \) (C) = \(\frac{1}{2} \) \(\frac{1}{2} \) The := LLC-1(4) C-puckets 13-now Expect: JTETICG) temps (6) tomp e.d.s. (6) 4 temp disc Atomic stubility: Del: P: Gsr -> C is stude if f(g) = f(g') whenever g, g'one rouj $G(\bar{F})$

Recall: Fany local field of duar o · Einer 160 d.z.] [(2.6)] [-100] SCG ell wax tony 87: 27 -> Cx Lod don (Y) = P(G) E(TG-15) $\sum (a_s \cdot \theta_2) (r^{\nu})$ P'- paint arebu (uniquely defermines (HC/12) (Char-Oi) if Sunraw, 4>>0) · introduce LLC Gool: unique duar of LCC · refined LLC

· global application

Couj: Assume 4 tempered. There

oxists SOp:= \(\gamma \tempered \), \(\gamma \tempered \)

THE C

THE TYPE (G)

which is non-zero and stuble.
No subat of The (G) has this
property.

Foct: SOP is unique up to rescaling,

Observe: Tip(G) and Cx. Sop déférmine each obver.

Unique char of Bosic CCC:

Evough to specify SBy in terms of 4.

Arthur: Classical groups -> twisted endocopy

The control of the day

· Today: explicit fula for

4 is superwspidal, px#w,

G tame

Def: 4 supercuspiclal (=) 4 ascrete 4/SL2 = 1. Assume pt#W, Gtume. (Sm: 59 (55 (4(1)))=:2 max toms of & normalited Set 5:= 5.4(wr) 5 LG. Fact: 1) WF -> 3 5 5 6 11-7621-21-1 Magic: Ruera 15 a commicul 150 3 - LSI. Oz: St -> & gen char.

S => G adu embeddings

Couj: SO4 (4) = 6(0) ECT-2) (P'- order) \(\int \(\lambda \lambda \) \(\lambda \lambda \lam More governly (ET-27)3 (E)9(3)9 = (Y) +02) 2 (as.a) (roi) 2 23 (loy ru) j:5->3/st top 11]= 26(15)°. Chi-Heng Lo, Cheng-Chiavy Tsai Internal structure of TI4 (a): Assume Gis q-spail: 313CG Boiel sub over F. in (To (Sp/ZGr) S4: 52(A)

Q: Who romesp. to 1 ERHS?

Couj (Shahidi): Fix a generic 4:4-3 Cx (8= Tu). 3! TE TTO (6) which is 4- generic, i.e. Howy (Tr. Cx) xo Q: tow unique is 14? Encloscopic character identities: Ut st Su sis. Det file 26(2)°C6. 3(= H.4(wx) < CG. Ruen ·) 4: xt -> 3(c) c ・) 1つ イーコレーシャーショ Magic': Mele 15 a double cover Hz -> H and o cau 150 3(-> LHz.

mus: 4: It -> +++ ~> 110 (42). <u>(G</u> (Du): SO, (f) = Str(14(*)(*) On (f) TE 114(6) 20(i, 8) So. (i) Y EH/St 8660

Fact: Mu above Couj uniquely détermines 24.

Stubi	litution	of hu	aut	spechum;	
let	G/@	cour v	I'd.	P	
L	.die (G(@)\G	(M)	O GCA	4)
				(G(Op))	'/
	F IT (6CA)				
et:	w(π) >	s hu a	TT av	ultiplicity	د
ें !	Compu				J

Covi (leottwitz): For any TEIN (CA) T = DTp \(\text{wult(1, \omega ?x(\pi))} 4: 20 -> 6 TIP & TTUP (G) Lauglands group of a Lop Sy = cout (4.2) 4piZap Sup = cout(up, E)

Q: How do you approach win? PECE (GCA) Tr (P/L2) = Z w(m). On (P) = \(\sigma \) \(= 2 TT Z + (14(m)(c1) Onp (4) (415) C-) (Hz, S, 4') = Si(GH) S 1 SY1 SO, (P') ST (P', L2 (THJ).