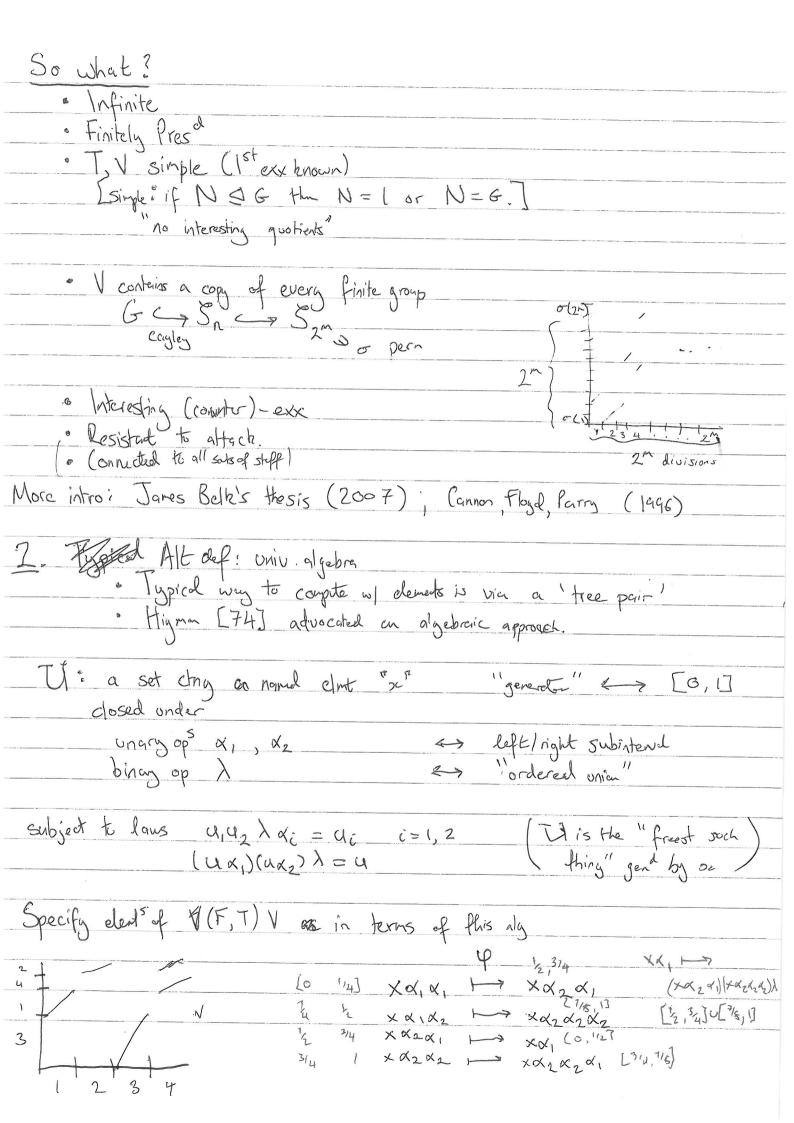
Power conjugacy in Higher-Thompson gps	
O. Story Joint with Andrew Duncan 1. Defining Thompson's gas ar Ziv: 1503.0103 2. Alternative def: univ. alg thompsons v. read the 4. Conjugacy problem 3. Orbit structure	32
B. Story Norther: PhD @ NCL working on Thompseis. Andrew: my supervisor & Norther's internel e me -> implement Norther's peon's alg on eo -> 3 months; gap in Higner's sol,	Xaminor
1. Thompson's gps F < T < V All gps of pns [0,1] > [0,1] under composit 4 3 2 fef 2 teT	tia.
"dyadic partition": repeatedly thether bisect intered (so	ane # of chops) 1 right-ck S' -> S! (disck & breckpoints)
F fixed order T porus V votever you vont torsion-free torsion	



Thm	V ⊇ (fut (U)	9 called	a out	or b/c		
	V +-	· 4	- ext	ands to	a bijectia 4	1: U ~~ »	U
	77	·			w/K1 = 4(
				40	a,) 4(a2) / =	4(4,42)	
and the transportation of the transportation							
.Why b	other?	- rewriting - moch eas	strings & solution to concret	sincy eggs ey clesc	rihe l'orbit	studur."	trees
3.6	njugeg =	Hignar.					
					f		
Def u	et,	y e V	4-orbit of	u = S	reg^		
	,	The	· · · · ·	-1(a), b	, 4(m), 4 ²	(u),	
2	c φ = f	2 from before					
> 3	-> [1,		[3/4,1] ->	[7/8,17		[]	
	X X	A_2	$\begin{bmatrix} 3/4 & 1 \end{bmatrix} \longrightarrow \times d_2 \alpha_2$	* X Z K Z	12	[1-1/2",	1] ~
	1					X (2	× ~
OLD O	oid)		U S	southis no	t incolus 1	7	
Co type	s of orb	its: rough	speaking			1	
9		warghet.			· //- >	X	
							\rightarrow
» »		$\lambda \lambda \lambda \cdots$				7/3	
~ `		U, U, U, -		,		\ll	
3	-		. Un Uo		$\langle \lambda \rangle$	1	\rightarrow
~	77)	u, un	1.7.7 -	D 9	rm	m	jo 2º
2 0)>> u, u2	Un	2	<	7	Ů
	01.4	, ··· q,)	\ . · ·	(3)		7	
	anneste (Constitute of Constitute of Constit			(4) m	$\mathcal{M} \longleftrightarrow$	m	0
\				AN	m -	>	D 4
					- 1/2	m	V
	٧	W / XX W .	·- U, ·-	(b) K	m	1	E.
				11 por	nd"		10

Higher state showed that we don't have to warry about
mm 0
$m \neq m \qquad (4)$
He said we don't have to worry about 6 (panel) but that's
not true.
Highan's alg for conjugacy needs to be able to tell if two gives
Highor's alg for conjugacy needs to be able to tell if two gives elab u ve II belong to the same 4-orbit The I st u= pk(v)?
FREZ St u= pk(v)?
He did not explain how to do this fer pand - orbits
PATCH Pard orbit is gluss a finite distance above a type (2)
Lamm & MMMM) (6)
ur vr
ur vr
We test I ke // st u M = pk (M)?
if It is u, v por the do not share an y-orbit
icib: counte 108 (12) and so it a 1210
if Ik: compute $\psi^k(w)$ and see if it equals u .
of not, no other & will work.
14 Hindre a la 17 1 arbit is described to
Tilgrans con argo Each or sor is also speed by an eq.
4 Highais conj algo Each orbit is described by an equ. Sx pdc: U= \parallel{p}^R(u) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
$\frac{150 \cdot 442 = 4(0)}{1}$
16 (1) - 000 00 1 : 0111/2 10 the
If $\psi = p^{aa} \varphi p^{-1}$ is. $p(u) = p(u)$
$\psi_{\rho} = \rho \varphi$ = $\psi(\rho(\omega))$
$T_1 = g(n)$ $U dz = g(\overline{u})$

The Higher A conjugate p st $\psi = g\psi g^{-1}$ exists iff I a bijection b/w ψ -orbit & ψ -orbits preserving alphais type of orbit & associated debar [(1), κ_2)] egy releptions b/w ψ -orbits				
Moreover, we need consider only a fte # of maps b/w orbits to see if \$ sech a bijectia exists.				
From here is lornte force: - try every such bijechin to see if any of them work.				