Corollan UCV => UWO > VWO

Pf U -> to in Britat graph <=> lltu>>llu)

(Wo-town in Britat graph <=> lltuwo)<lluwo)

(Wo-town)

So: UHOWO is a paset antiautomorphism
UHOWOU is a paset antiautomorphism
UHOWOWO is a paset admorphism.

Some grestions

o For Sn, what does unsule do? Unswow do? Unswows do?

ols wo a reflection? (wo2=e)

Parabolic Subgroups and Quohents

General subgroups of W are arbitrarily complicated, since any group is a subgroup of a sym. gp.

Q 'Are infinite sym gps (ox gps?)

So we focus on parabolic subgroups; which behave nell. (W,S) Coxeter system

For JES let W7 be the subgp gen by J.

There are the parabolic subgroups (2¹⁵) of
them

Properties

(i) (WI, I) is a Coxeter system

((ii) ly (w)=l(w) for weWy

(lg=l in (Ws, J))

(iii) WINWI = WINI

(iv) <WIUWJ>=WIUJ

(v) WI=WJ() II

Pf.
(ii) Take a J-word for w, and reduce by deletion
(i) By (ii), (WJ,J) inherits exchange from (W,S)
(iii)-(v): Exercises. B