Sep. 25, 2020

LOWING Sensus Sound bindles

I Type A

Perantations

Syn = Au ({1,2, ... h})

Sym, ~ {1,2, ..., n}

Tno lie notesm: (123456) mod 7

Due like notation; (246135)

(ycle 40600 (124) (365)

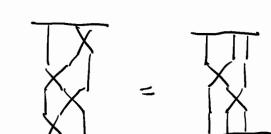
Diagram :

+ read from tight to left · head from botter to top

Con ven Fian ;

• 6·T=

Length The length of no Syan is of (w) := # orossiye in reduced diagram of a reduced of crossy is mislimal Lanca ((w) = # Sinconian 5 =# らに」: いじろいじ) Con There exists a longest elevent wo. 4(w)=(1) Deletion and won If the strange cross trice, the ne can remove the cong.



Observen: a diagram is reduced if no two strads cross at least twice.

Expresion

An expression of m is a sequence w=(s1, ..., s2) s.t. s1s2--sqcw.

(exp. of m) = (diagram of m)

The length of expression s1:---sq is d.

An expression is reduced if the langer is nainel among all express nows of w.

f (expression) > f [diagram)

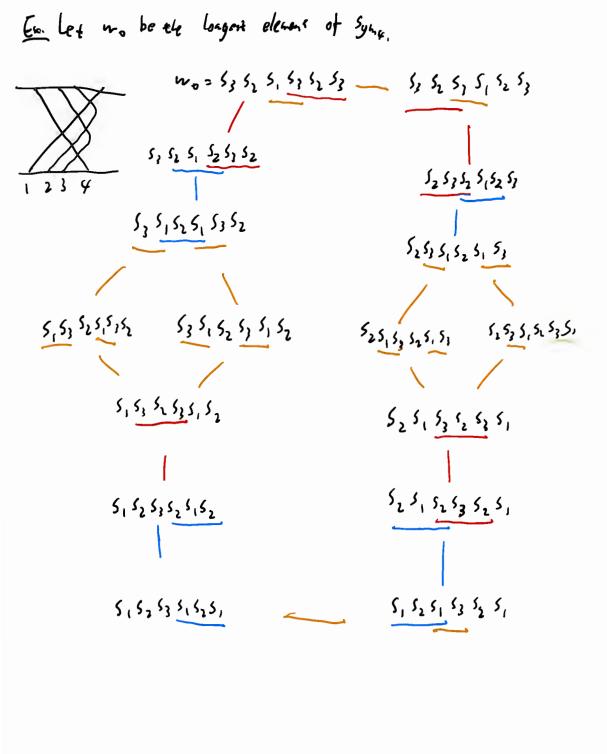
Let vex := reduced exp.

fex graph

Consider all res of w.

A remove is a single application of a braid reborn.

The rex graph of m is the graph with 1020, as nowice and row in no as edges



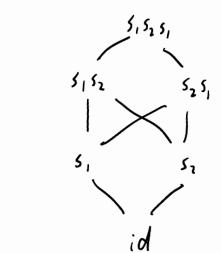
The (Matsunoto) The reves of m are unique up to 1800 moves hot brique in govern ones Bottusanelson bimodule, BS m> Soegel bindale, Bu rex. n ms Sparpel timable Bu -> Songel bindule Br

up to unique iso.

Bruket order

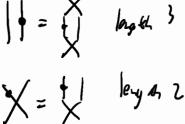
 \times (y if \times is a subsup of nex y for some x

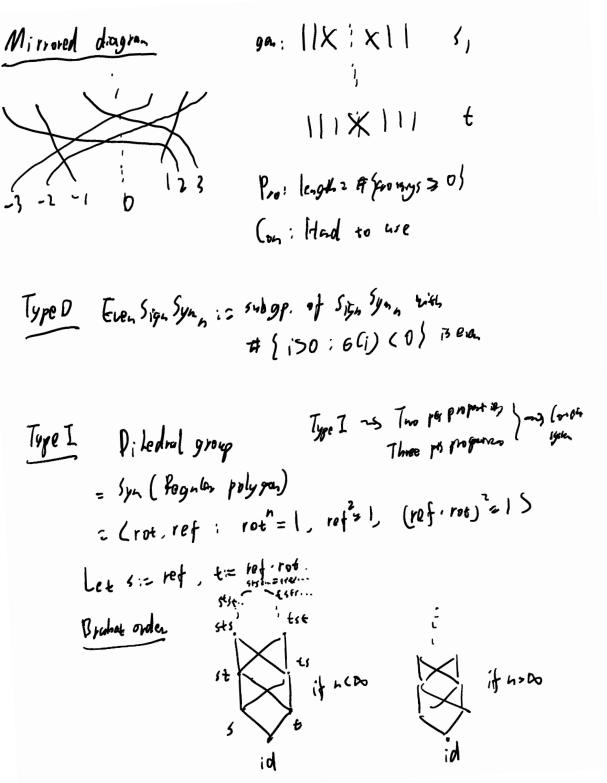
5,525,



Pro 1 easy to live

Con: length is not obrious





II Cosets group. In (Coneta) Any filite subgp. of O(R) garacted by reflection has a presentation. はいこちもー W=(ses: 52=1, (54) hot=1) risple quady 1 25 host (to reft. board Moveour they are products of ---- ·-- ·--By ==== b, >----E. E. Es ----F4 -4 H3, H4 5 ... In •

Det Coketa system (W, S) S finite N= < 565: 82= 1, (54) mile = 1) 454 € {2,1,... } (/10) All Court synes Georetic representation are him " of the I. F= Sm / V := (F) k Q3 < , > : V x V -> k ds, dt - cos T (5,, 20) action W x V -> V $3 \lambda = \lambda - 2 \langle \lambda, \alpha_s \rangle d_s$ Prop The geometre repr. is foithful, Come War Brest ... Buts... " 1 -> 1" Paikful V = such good map exists.

Consta conplex of type I Geolobic may of writing I Ch w & kW. 565=8t

