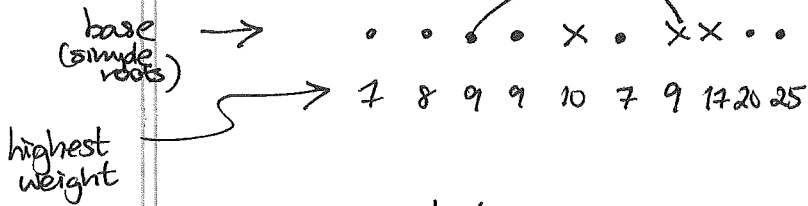


C.P.S. Mike Chmutov 10/24/14

Comb. model for $gl(m/n)$ reps.

Arc diagrams

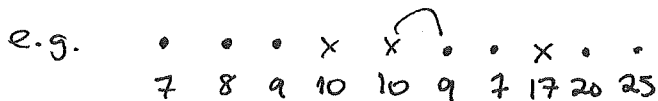
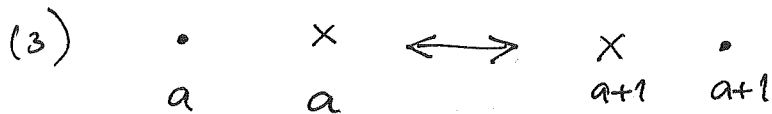
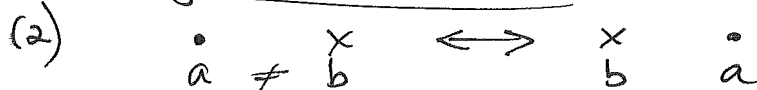
$(\lambda + \rho)$ -max atypical subsets



- arcs go between \bullet 's and \times 's
- arcs have disjoint support
- arcs go between same #'s
- want the set of arcs to be maximal satisfying these constraints

Moves (that keep the rep'n the same):

(1) Change arcs



represents the same rep'n.

Dominance condition:

in any base $m \bullet \bullet m \Rightarrow a > b$
 $a \quad b$

$m \times \times m \Rightarrow a < b$
 $a \quad b$

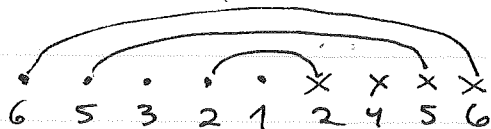
(enough to check when
 $\dots \times \times \times$)

Interesting cases ("tame reps")

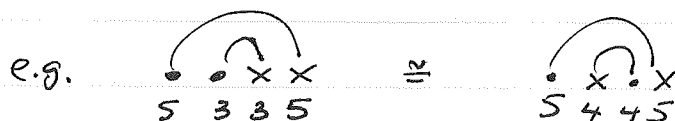
When it is possible to make all arcs short



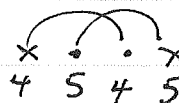
THM (C. - Hoyt-Reif) Tameness occurs precisely when in the standard base



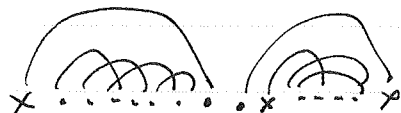
all numbers between arcweights appear somewhere



||s



THM 2:



2 outermost arcs \Rightarrow tame.

CONJ: For a tame weight, in any base there exists a noncrossing arc arrangement

