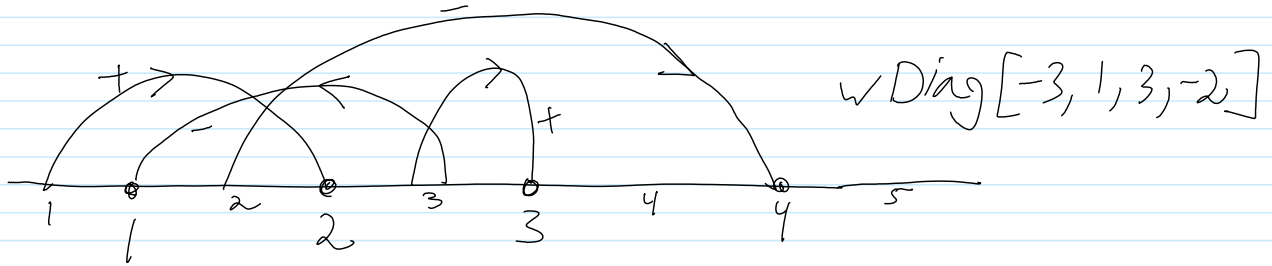


## wEnumeration

March-22-15 3:04 PM



Arrows are enumerated by their heads.

All tube w-diagrams:  $\{\pm 1, \dots, \pm(n+1)\}^n$

All torus w-diagrams:  $\{\pm 1, \dots, \pm(n+1)\}^n / \text{rel.}$

New to implement: All Tube Diagrams  $[n]$ ,

Rotate Left, Rotate To Minimal, All Torus Diagrams

Remove R1, Remove R1s, Remove R2, Remove R2s, RF,

All Reduced Torus Diagrams

All R3 Relators, Rel OF.

FindClasses  $[L, \{i_1 \rightarrow j_1, i_2 \rightarrow j_2, \dots\}]$  junk

should return:  $L$ : object count.

1. A list of "simpler forms"  $\{s_1, s_2, \dots, s_L\}$

where  $s_i = 0$  means "object  $i$  does not reduce".

## March 27 notes:

- Syntax: wLDiag[R3[i\_,j\_,k\_],ts\_\_\_], same with wCDiag.
- Write a wLDiag "type caster".
- Write "Resolve"
- Write AllLinearR3s, AllCircularR3s.