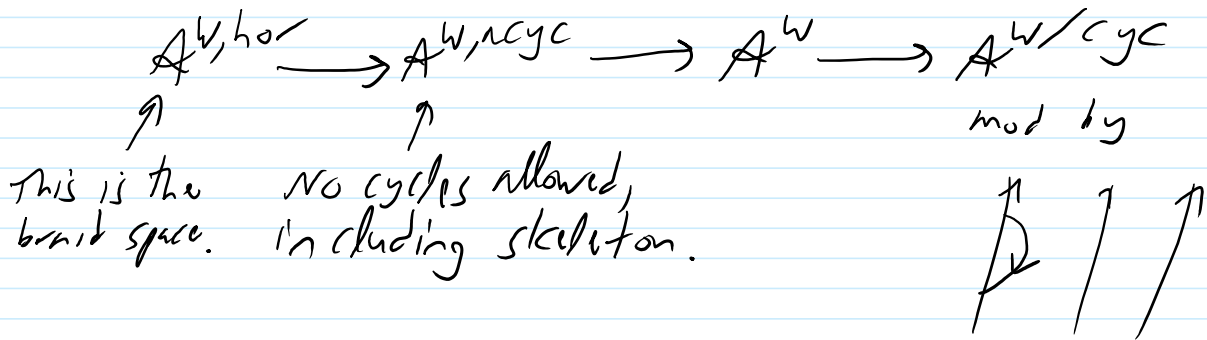
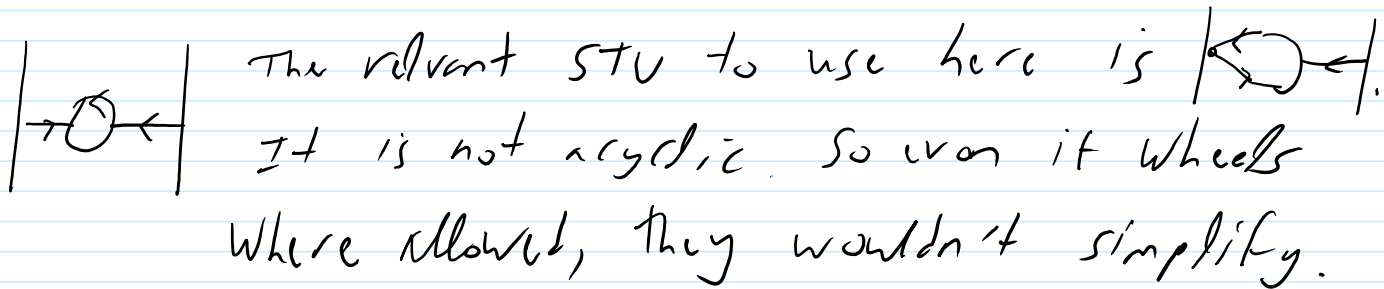


Knotted w-horns

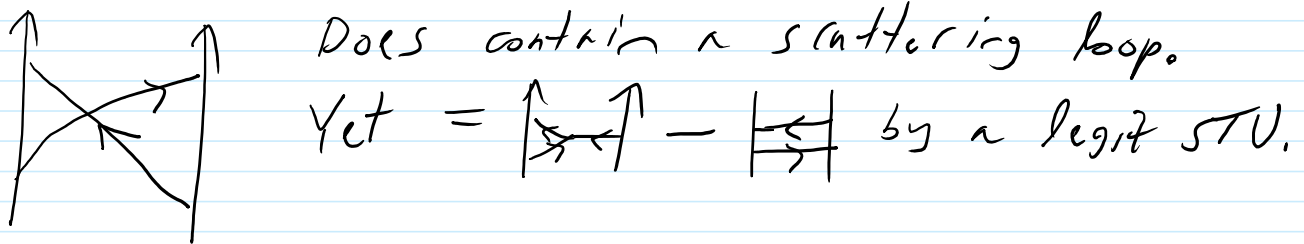
March 15, 2016 10:39 AM



First, $A^{w,acyc}$: Does not have strand stitching!



Yet all trees are in! Using the u embedding:



Conjecture. $A_n^{w,acyc} \cong U(\mathfrak{tder}_n)$.

Likely true. The simplifying moves, as above, remain allowed.

Is $A^{w,acyc}$ finitely presented?

$K^{w,acyc}$ is w-tangles with no "flow and drop down" loops.

A Taylor expansion exists!

$K^{w,acyc}$ is probably the same as "the monoid of basis-conjugating (not-necessarily-invertible) elements of $\text{Hom}(FG_n, FG_n)$ ".

Next, $A^{w/cyc}$!