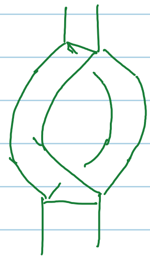
Time to resolve the local u->w issue, II

May-05-12
11:59 AM

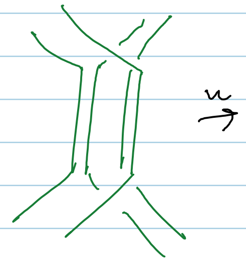
Equations are certain; interpretations are speculative.

Blob? $V^{-1}V = I$



$= 1$

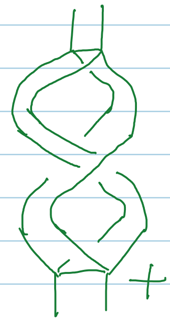
$V\cdot V^{-1} = I$



Twist. $V\cdot \Theta = R_{12}V^{21}$

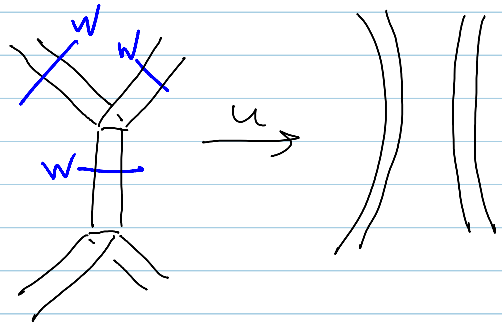
or $\Theta = V^{-1}R_{12}V^{21}$

or $V^{21} = R_{12}^{-1}V\Theta$



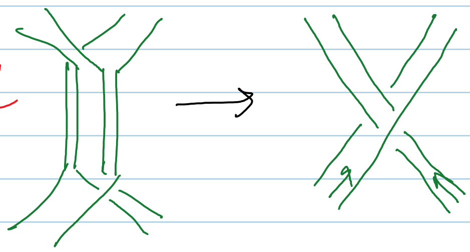
Mnemonic: "$V = R_{12}^{1/2}$"

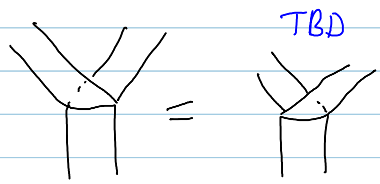
Unitarity. $V\cdot V^{*} = I$



Flip. $V\cdot S(V) = R_{12}$, so $V^{-1} = S(V)R_{12}^{-1}$ and $S(V) = V^{-1}R_{12}$

??

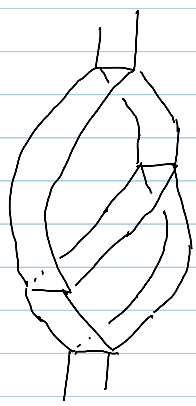




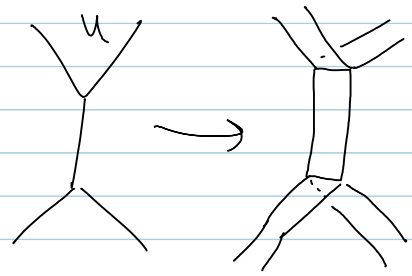
Φ.

$\Phi =$

$V^{-12,3}V^{-12}\cdot V^{23}V^{1,23}$

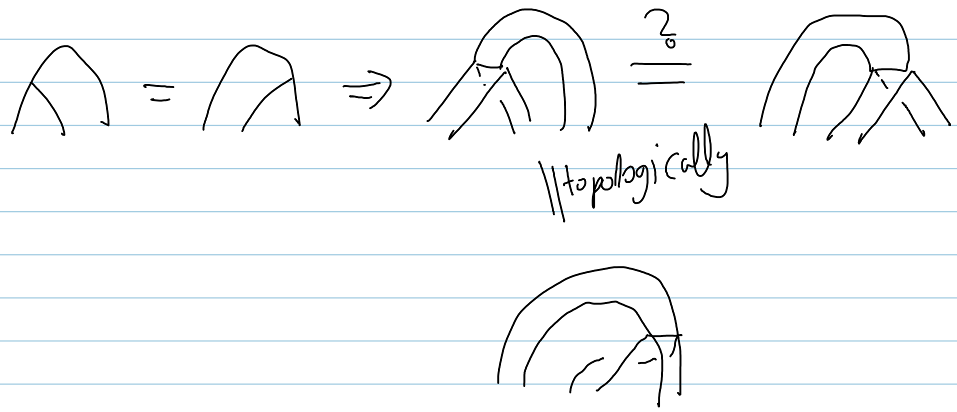


unzip.



Note: Maybe already in the u-word there are two types

of vertices, + & −, that differ just by a Θ¿
They would be twist-equivalent in the Drinfeld sense, yet they'd look different given caps.

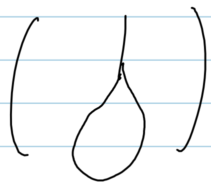


?

Also, how do w-framings come in¿
More precisely, how do framings interact with vertices and unzips¿

$$S(V^{21}) = S(R_{12}^{-1} V \Theta) = \Theta S(V) R_{12}^{-1} = \Theta V^{-1} R_{12} R_{12}^{-1} = \Theta V^{-1}$$

News! The "top delete" equation is about managing

a() where even the u-vertices are chiral.