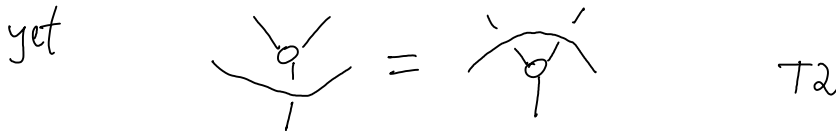
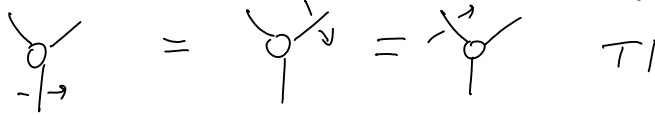


Trinion Vertices (provisional naming)

September-08-08
6:40 PM

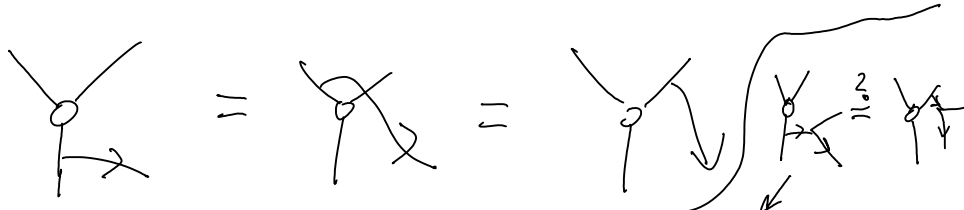
(Perhaps "smooth vertices"?)

(Trinion vertices as opposed to foam vertices?)

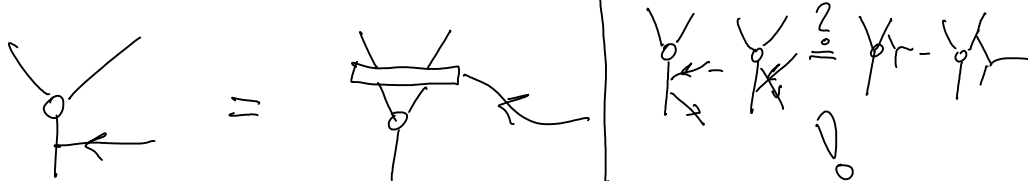


Claim If an expansion exists without beam splitters, it extends to these.

Proof(?) on the level of arrow diagrams, the trinion relations become



and



The usual Z ($\diagdown \rightarrow \diagup$) seems to work.

I still don't understand this at U(Ig) level

And seems to continue working even with "tail renormalization" ($\diagdown \rightarrow \diagup$), yet fails under "head renormalization" ($\diagdown \rightarrow \diagup$)

Q What part of group theory is seen by crossings, vertices and trinion vertices?