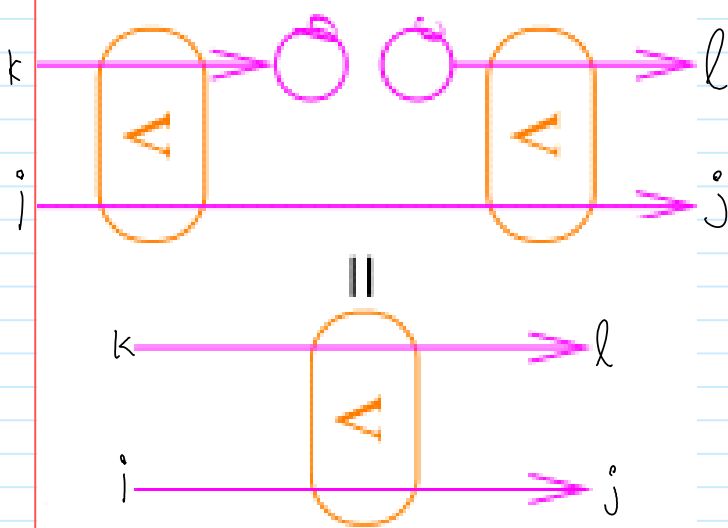


# $\delta_{aa}$ relations

July-15-15 11:26 PM



"The swinging relation"

There are also descendants of  $6T$  & locality.

$$\delta a_{ij} a_{kl} - \delta a_{il} a_{jk} = \pm (b_{kc} a_{ij} - b_{ic} a_{kj} - b_{kc} a_{il} + b_{ic} a_{kl})$$

$$a_{12} a_{34} \sim a_{14} a_{32}$$

Can be used to sort heads when tails are apart.

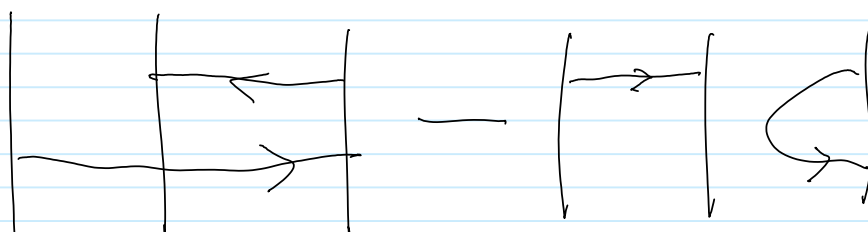
Are there 3-strand specializations?

— the tails may be on the same strand — in the presence of a  $C$ , tails anyway commute.

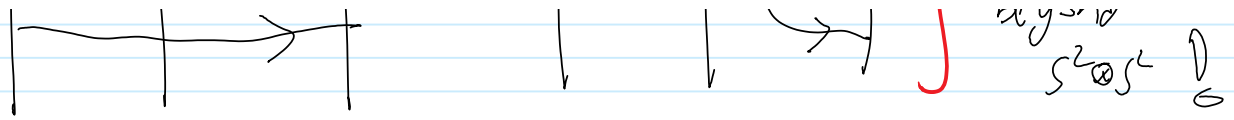
The same-head  $ij \rightarrow k$  specialization:

$$\pm (\delta b_{ij} a_{jk} - \delta b_{ji} a_{ik}) = \delta (a_{ik} a_{jk} - a_{jka} a_{ik})$$

this I already know... (but it still needs an implementation).



That's a reduction beyond  $5205$ !



... all a-a commutators (incl. t-h) have simpler daa counter parts.

Aside what is  $\mathcal{O}_2 A^V$ ? (I should have known this long ago....)

I need a good section  $S^2 V \otimes S^2 V \rightarrow A^{20V}/16$ !

(or arbitrary: "put tails below heads, average over connections".)