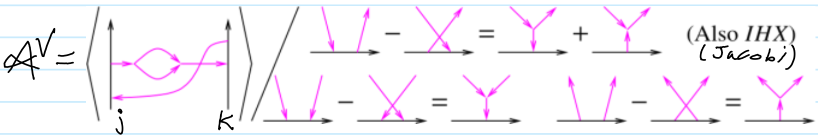
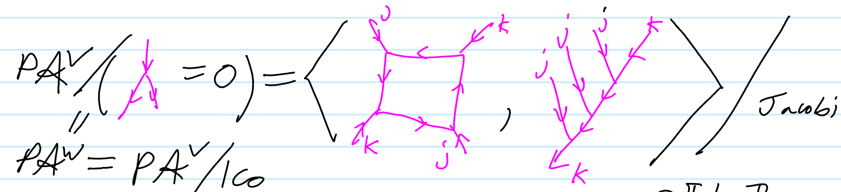
PolyPoly Extras

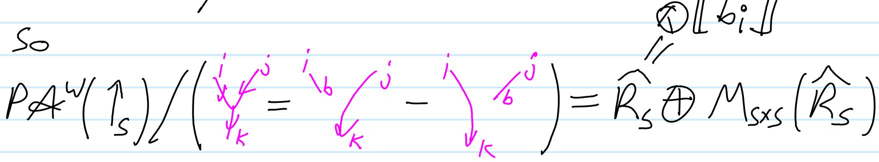
Monday, August 24, 2015 3:10 AM

Dror Bar-Natan, Les Diablerets, August 2015
http://drorbn.net/LD

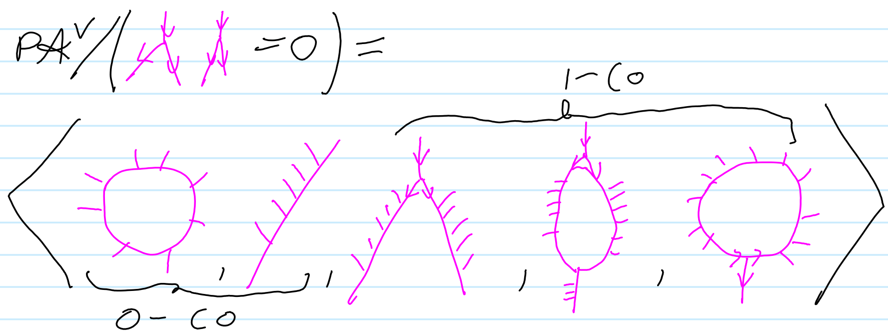


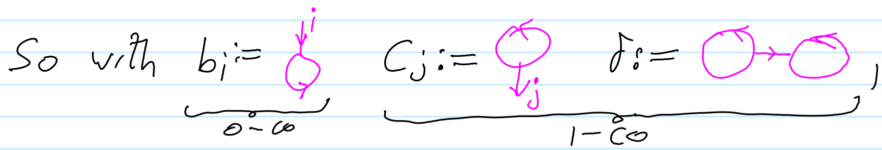


So

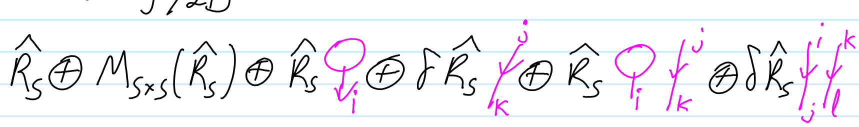


and the rest is (hard!) calculations, which lead to a simple rational-function result.





$(PA^v/2co)/2D \subset$



$$= V_S + V_S^{\otimes 2} + V_S + V_S^{\otimes 2} + V_S^{\otimes 3} + (S^2(V_S))^{\otimes 2}$$

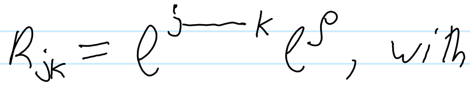
[The product law is awful, but experience shows that things simplify....]

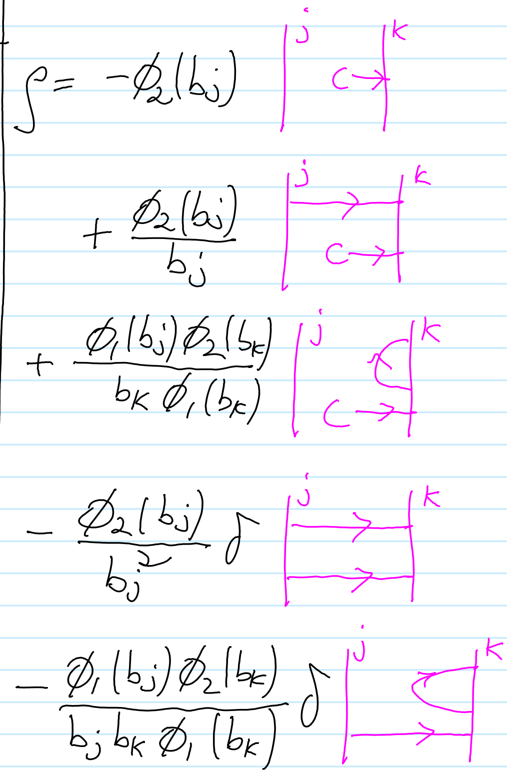
Stitching is clearly possible, but I still don't have explicit formulas.

Proposition The element R_{ij} given below solves the YB equation

$$R_{12}R_{13}R_{23} = R_{23}R_{13}R_{12}$$

in $A^v/2co/2D$!





where $\phi_1(x) = e^{-x} - 1$

and $\phi_2(x) = \frac{(x+2)e^{-x} - 2 + x}{2x}$

Video and more at http://www.math.toronto.edu/~drorbn/Talks/LesDiablerets-1508/