Kauffman in Trieste

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Lou Kauffman on the closest he gets to an R-matrix formulation of the arrow poly.

Nota Bene

$\boxed{\lambda^{ab} = \lambda_{ba}}$

$\lambda_{ab}\lambda_{bc} = \delta_{ac}$ $\qquad \delta_{aa} = d = -A^2 - A^{-2}$

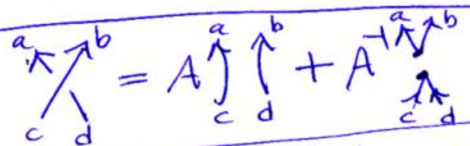
$\lambda_{ab} \neq \lambda_{ba}$

$\delta_{ab} = \delta_{ba} = \delta_a^b = \delta^b_a, \quad \delta_{ab}\delta_{bc} = \delta_{ac}$


$= \lambda^{ab}$


$= \lambda_{cd}$

etc.



$$\boxed{R^{ab}_{cd} = A\delta^a_c\delta^b_d + A^{-1}\lambda_{cd}\lambda^{ab}}$$

$\lambda^{ba}\lambda_{ab} = \lambda_{ab}\lambda_{ab} = K1$

This abstract tensor is a solution to YBE. This is as close as I come just now to R-matrices. ~~But~~ there may be much more at abstract tensor level.