## Cheat Sheet Double Tree

http://drorbn.net/AcademicPensieve/2013-10/

Let $\mathcal{K}^{u w}$ be the algebraic structure $[s K T G \xrightarrow{a} \widetilde{w T F}]$, where ori switch of red strands and puncture of black. The prosKTG is signed knotted trivalent (1,1)-tangles. $\widetilde{w T F}$ is $w T F^{o}$ jectivization of $\mathcal{K}^{u w}$ is $\mathcal{A}^{u w}=\left[\mathcal{A}^{u} \xrightarrow{\alpha} \mathcal{A}^{s w}\right]$, where in $\mathcal{A}^{s w}$ with added generators $\{\pi / \lambda, \nwarrow \pi, \not \approx, \not \approx \pi\}$ now a coloured circuit algebra. All Reidemeister and OC relations Theorem 0. $\exists$ homomorphic expansion $Z^{u w}=\left(Z^{u}, Z^{w}\right)$ appear with all possible colourings. Two? new operations: 1 -wheels are zero and so are tails on red strands. for $\mathcal{K}^{u w}$. (In particular $\alpha Z^{u}=Z^{w} a$.)

Dror's notes: Still none.

