$K^{u/s} \to K^{w/s}$

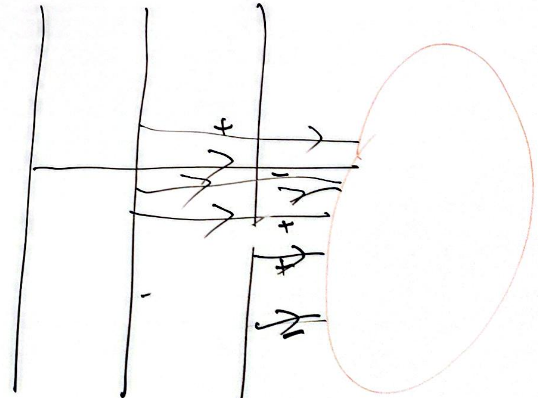
$R^{12}R^{13}=R^{13}R^{12}$

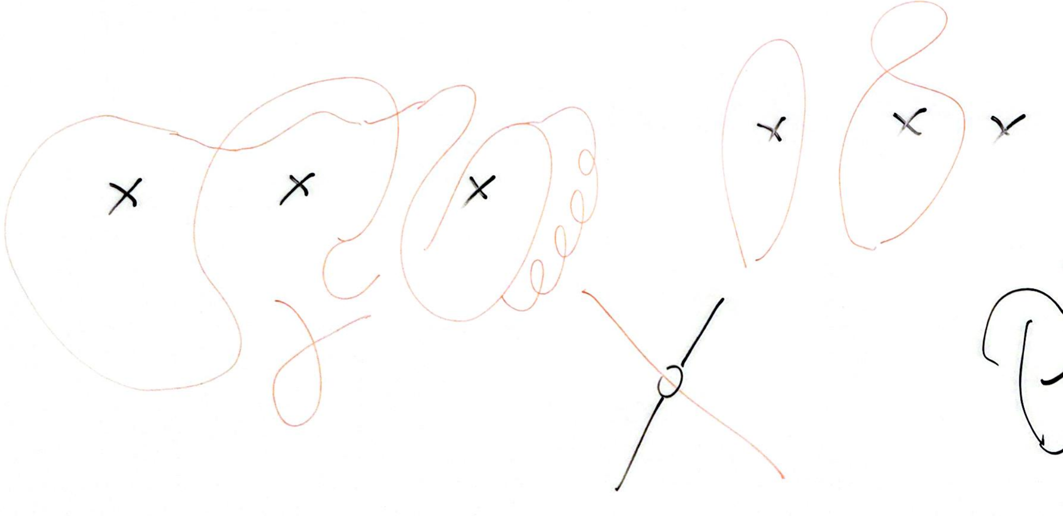
$K^{w/1}_{pos}(O) \cong |\overline{\Pi}|$

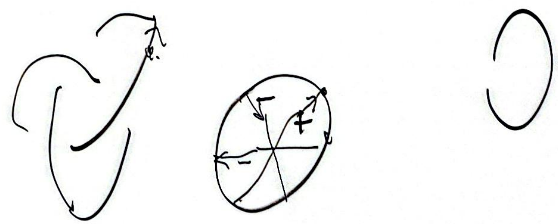
$R^{12}=e^{a_{12}}$ $\quad a_{12}=(0,x_1)$

$e^{a_{12}}e^{a_{13}}e^{a_{23}}=e^{a_{12}+a_{13}}e^{a_{23}}\dots$

$a_{12} \to I \in g^* \otimes g \subset Ig \otimes Ig \subset U(Ig)^{\otimes 2}$

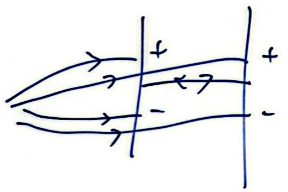






$A^{1/2}_{PDS_3}$	$s=1$		$s=2$ / A
U	$A\otimes A$	$A\otimes A \oplus A\otimes A\otimes A\otimes A / A + 2$	$A\otimes A$
W	$A\otimes A$		

A, $|A|$, ∂_y, div.



$X - X = b)($

$\mathcal{A}^{1/2}_{PDS_3}(\uparrow\uparrow)$	$s=1$	$s=2$	$s=2/A$ $H = X$
$\mathcal{U}$	$A\otimes A$	$A\otimes A \oplus A\otimes A\otimes A\otimes A/A + 2$	$A\otimes A \xrightarrow{(1\otimes\varepsilon)} A$
$\mathcal{W}$	$A\otimes A$		

FFFF

$$\Phi^{2,3,4}\,\Phi^{1,23,4}\,\Phi^{1,2,3} = \Phi^{12,3,4}\,\Phi^{1,2,34} \qquad \Xi$$

$$\updownarrow$$

$$\mathcal{U}t_{2,2}/(t_{23})^2$$

$$f(t_{3,4}) + \Sigma + f(t_{1,2}) = \Phi\otimes\Phi$$

$A^{\otimes 3} \to A$

$\bar{\mu}(\Phi)$ TDO on $\mathrm{Fun}(\mathfrak{g})$

$$\mathcal{U}(I\mathfrak{g}) \xrightarrow[\substack{\text{infi-Aut}\\ \mathfrak{g}\mapsto -\mathfrak{g}\\ \mathfrak{g}^*\mapsto \mathfrak{g}^*}]{T} \mathcal{U}(I\mathfrak{g})$$

$\Downarrow$

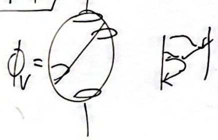
$\vee$

$\left.\begin{matrix}\text{KVI}\\ \text{KVII}\end{matrix}\right\} \Longleftrightarrow \left.\begin{matrix}\text{KVI}\\ \exists(\Phi_F)=1\end{matrix}\right\}$

$V = Z(\lambda) \rightsquigarrow V^{tree} \in \mathcal{A}/\text{wheels}$

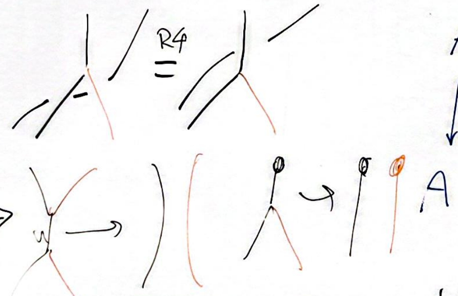
$\boxed{V^{tree} \text{ satisfies R4}}$

ϕ_V from V^{tree}

$\phi_V =$ 

$\boxed{\phi_V\,\phi_V^* = 1}$

$\Rightarrow \exists$ a suitable $C = Z(\uparrow)$ & corresponding wheel component for V^{tree} to make the 3 eqns true



$V = e^F \cdot e^\varphi \qquad VV^T = I$

$\sqrt{J}$