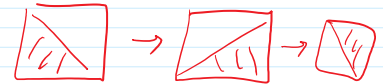


Scratch

March 1, 2017 4:36 PM

$$\begin{pmatrix} a & b \\ 0 & 0 \end{pmatrix} \rightarrow \begin{matrix} w & c & u & b \\ a & b & c & d \\ 0 & 0 & 0 & 0 \\ 0 & 0 & a & b \\ 0 & 0 & 0 & 0 \end{matrix} \quad [w, c] = w$$



$a_2$	$b_2$	$c_2$	$d_2$	$a_2$	$b_2$	$c_2$	$d_2$
0	0	0	0	0	0	0	0
0	0	0	0	0	0	$a_2$	$b_2$
0	0	0	0	0	0	0	0
$a_1$	$b_1$	$c_1$	$d_1$	$a_2$	$b_2$	$c_2$	$d_2$
0	0	0	0	0	0	0	0
0	0	$a_1$	$b_1$	0	0	0	0
0	0	0	0	0	0	0	0

$$\begin{matrix} a & b & c & d \\ 0 & 0 & 0 & 0 \\ 0 & 0 & a & 0 \\ 0 & 0 & b & 0 \end{matrix} \rightarrow \begin{matrix} a & b & d & c \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & b \\ 0 & 0 & 0 & a \end{matrix}$$

$$g_1 \supset \langle b, u, w, eb, ec, eu, ew \rangle \supset \langle b, eb, ec, eu, ew \rangle \supset \emptyset$$

$C$                        $u, w$                        $b, eb, ec, eu, ew$

$$[c, w] = w \Rightarrow [c, f(w)] = w \partial_w f$$

$$A_{dc} w = e^x w$$

$$[c, e^{xw}] = \alpha w e^{xw}$$

$$A_{dc} f(w) = f(e^x w)$$

$$a_{dc} e^{xw} = \alpha w e^{xw}$$

$$A_{dc} e^{xw} = e^{e^x w}$$

$$a_{dc} e^{xw} = \gamma w e^{xw}$$

Does 1PI have a meaning in our context?

$$bc + uw \rightarrow$$