

17/08/16

Schur - Weyl dualities in non-semi-simple cases

(slides)

$B$  supersym. bilin. nondeg form  $V \otimes V \rightarrow \mathbb{C}$

ie.  $\beta|_{V_{\bar{0}} \times V_{\bar{0}}}$  Sym

$\beta|_{V_{\bar{1}} \times V_{\bar{1}}}$  Skew  $\beta|_{\text{mixed}} = 0$

for  $V = V_{\bar{0}} \oplus V_{\bar{1}}$  super vect. sp.

Zig-zag rel's :  $\longrightarrow \longrightarrow = 0$

and  $G^{\oplus} = \circlearrowleft$

all loops at one pt are the same

claim: have cellular alg  $\longrightarrow$  our algebra (selfinj)