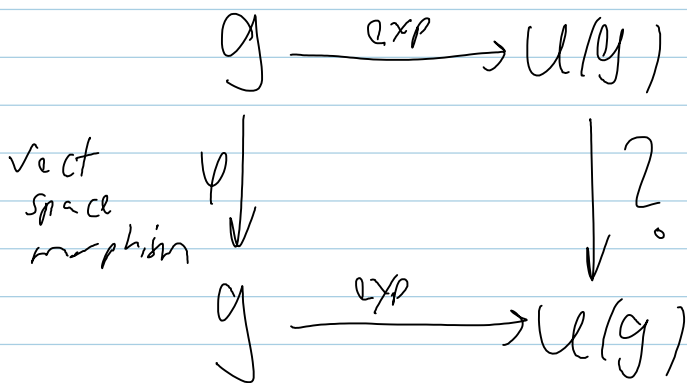


As $A^W(\Gamma_n) \cong U(\mathfrak{t}_{\Gamma_n} \rtimes (\mathfrak{t}_{\Gamma_n} \oplus \mathfrak{a}_n))$, it ought to be possible all operations on $A^W(\Gamma_n)$ in AT-language.

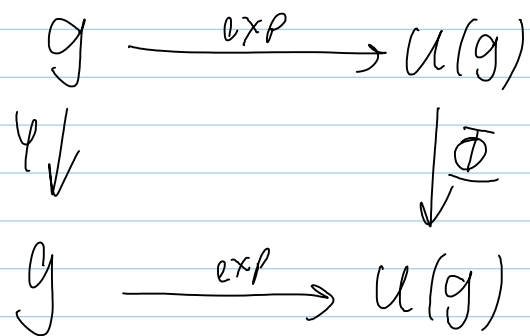


Question IF $\psi: \mathfrak{g} \rightarrow \mathfrak{g}$ is a linear map
The question is in question.

Suppose $\Phi: U(\mathfrak{g}) \rightarrow U(\mathfrak{g})$ is a co-algebra map;
then Φ restricts to a linear map $\psi: \mathfrak{g} \rightarrow \mathfrak{g}$
(not a Lie algebra morphism!)

Q. Does this diagram commute?

IF not, does it induce an alternative $\psi': \mathfrak{g} \rightarrow \mathfrak{g}$?



Is there a nice formula for ψ' in terms

of ψ and the bracket of g^2