

Scratch - Artin's

Sunday, November 8, 2015 11:55 AM

$$A^u \rightarrow A^w \xrightarrow{\square // \otimes \beta} A^w \otimes FL$$

$$A^w / \text{im } A^u \xrightarrow{?} A^w \otimes FL$$

What does A^w act on?

1. FL, using Hopf-Conjugation
2. Using the bracket, red-z z-primitives in $A^w(SU \uparrow_z^h)$ "b"

My smallest upper bound on $\text{im}(A^u \rightarrow A^w)$ so far is $\text{ker}(\square // \otimes b)$

Where $\square // \otimes b: A^w \rightarrow A^w \otimes A_{z\text{-prim}}^w(SU \uparrow_z^h)$.

Cont. on Nov 26

A better upper bound is from

$$A^u \rightarrow A^w \xrightarrow{e^{\square} // e^b} \rightarrow$$

General question:

(151126) A a Hopf algebra, b a primitive derivation $b // \square = \square // (b \otimes 1 + 1 \otimes b)$, $B := \{D \in A : (bD = 0) \wedge (\square D = D \otimes 1 + 1 \otimes D)\}$. Characterize the subalgebra $\langle B \rangle$ generated by B .

