

$$\begin{array}{c}
\mathcal{A} \\
\mathcal$$

Note: In the w case,

$$g_{+} \oplus g_{-} \xrightarrow{g_{-} \to 0} g_{+}$$

is a Lie alg. map, but

 $g_{+} \oplus g_{-} \xrightarrow{g_{+} \to 0} g_{-}$ 

is n't.

In a general bi-algebra, there's only one way to map  $U(y) \rightarrow U(y_+)$  or  $U(y) \rightarrow U(y_-)$ , and this is via M+ &M- [i.e., using PBW Followed by a projection). The "other" map u(y) -> u(y+) that exists in the w-case is a coincidunce.

