## Remove & productions Elimination of & productions

 $A \rightarrow \epsilon$  is called as null productions. for L(4) we want to find canivalent grammar 41 such that  $L(4) = L(4) - \epsilon$ 

$$\begin{array}{c}
() & S \rightarrow ABA \\
() & A \rightarrow aAl \in B \rightarrow bBl \in B
\end{array}$$

Rewrite nullable symbols.

$$S \rightarrow ABA | BA | AA | AB | A | B |$$

$$A \rightarrow aA | a$$

$$B \rightarrow bB | b$$