

What can I do with  $\alpha: \mathfrak{g} \rightarrow G$ ?

$$u \rightarrow \alpha(u) \rightarrow \alpha(u^{\alpha(u)}) \rightarrow \alpha(u^{\alpha(u^{\alpha(u)})}) \rightarrow \dots$$

call the limit  $\beta(u)$ ; it satisfies

$$\alpha(u^{\beta(u)}) = \beta(u)$$

Why should I care?