

$$\begin{array}{ccc}
 \mathrm{Sym}(V^*) & \xlongequal{\quad} & \mathrm{Sym}(V^*) \\
 \ell_\varepsilon \uparrow & & \uparrow \ell'_\varepsilon \\
 K[\mathbf{e}_0, \dots, \mathbf{e}_n] & \longrightarrow & K[\mathbf{e}_0, \dots, \mathbf{e}_n]
 \end{array}$$

$$\begin{array}{ccc}
 F(x_0, \dots, x_n) & \xlongequal{\quad} & F((y_0, \dots, y_n) \cdot T) \\
 \uparrow & & \uparrow \\
 F(\mathbf{e}_0, \dots, \mathbf{e}_n) & \longmapsto & F(T\mathbf{e}_0, \dots, T\mathbf{e}_n)
 \end{array}$$