

$$\begin{aligned}
\text{dyn}_{f \circ (g \circ h)} : \mathbf{U}_f \times (\mathbf{X}_f ; (\mathbf{X}_g ; \mathbf{X}_h)) &\rightarrow \mathbf{X}_f ; (\mathbf{X}_g ; \mathbf{X}_h) \\
\langle u, [x_f ; x_g ; x_h] \rangle &\mapsto [\text{dyn}_f(u, x_f) ; \text{dyn}_{g \circ h}(\text{ro}_f(x_f), [x_g ; x_h])] \\
&= [\text{dyn}_f(u, x_f) ; \text{dyn}_g(\text{ro}(x_f), x_g) ; \text{dyn}_h(\text{ro}_g(x_g), x_h)].
\end{aligned}$$