

$$\begin{array}{c}
 \mathbf{U}_f \times S(\mathbf{X}_f * \mathbf{X}_g) \xrightarrow{\text{Id} \times \text{coh}_{f,g}^{-1}} \mathbf{U}_f \times (S(\mathbf{X}_f) \times S(\mathbf{X}_g)) \xrightarrow{\text{dyn}_{f,g}} S(\mathbf{X}_f) \times S(\mathbf{X}_g) \xrightarrow{\text{coh}_{f,g}} S(\mathbf{X}_f * \mathbf{X}_g)
 \end{array}$$