$$\underbrace{\mathbf{U}_{f} \times S(\mathbf{X}_{f} * \mathbf{X}_{g})}_{\text{id} \times \text{coh}_{f,g}^{-1}} \underbrace{\mathbf{U}_{f} \times (S(\mathbf{X}_{f}) \times S(\mathbf{X}_{g}))}_{\text{dyn}_{f \circ g}^{-1}} \underbrace{S(\mathbf{X}_{f}) \times S(\mathbf{X}_{g})}_{\text{coh}_{f,g}} \underbrace{S(\mathbf{X}_{f} * \mathbf{X}_{g})}_{\text{coh}_{f,g}}$$