$$\mathbf{U}_f \times (\mathbf{X}_f * \mathbf{X}_g) \xrightarrow{\mathrm{id} \times \mathrm{coh}_{f,g}^{-1}} \mathbf{U}_f \times ((\mathbf{X}_f) \times (\mathbf{X}_g)) \xrightarrow{\mathrm{dyn}'_{f \, \mathring{9} \, g}} (\mathbf{X}_f) \times (\mathbf{X}_g) \xrightarrow{\mathrm{coh}_{f,g}} (\mathbf{X}_f * \mathbf{X}_g)$$