

$$\mathrm{Hom}_{\mathbf{qAff}}(X_2, Y) \xleftrightarrow{\sim} \mathrm{Hom}_{\mathbf{k}\text{-Alg}}(A(Y), \mathcal{O}(X_2))$$

$$\downarrow$$

$$\downarrow$$

$$\mathrm{Hom}_{\mathbf{qAff}}(X_1, Y) \xleftrightarrow{\sim} \mathrm{Hom}_{\mathbf{k}\text{-Alg}}(A(Y), \mathcal{O}(X_1))$$