

$$\begin{array}{ccc}
& & -\otimes_B B_A \\
& \swarrow & \searrow \\
\mathbf{Mod}_{(A,d)}^{dg} & \begin{array}{c} \xrightarrow{\mathcal{HOM}_A(B,-)} \\ \square \\ \xrightarrow{-\otimes_A B} \end{array} & \mathbf{Mod}_{(B,d)}^{dg} \\
& \nwarrow & \nearrow \\
& & \mathcal{HOM}_B(B,-)
\end{array}$$