$$X \xrightarrow{\ i_X\ } U(F(X)) \qquad\qquad x \longmapsto i_X(x) = x$$

$$\varphi_0 \searrow \quad \Big\downarrow \varphi$$

$$U(M) \qquad\qquad\qquad \varphi_0(x) = \varphi(x)$$