

$$\begin{array}{ccc}
 P & \longrightarrow & \mathrm{Hom}(\mathbb{B}, \{\mathcal{A}, \mathcal{V}\}) \\
 \downarrow & & \downarrow (-) \circ i \\
 \{*\} & \xrightarrow{\{F_S\}} & \mathrm{Hom}(\mathbf{1}, \{\mathcal{A}, \mathcal{V}\})
 \end{array}
 \qquad
 \begin{array}{ccc}
 (K, T) & \longmapsto & T : \mathbb{B} \longrightarrow \{\mathcal{A}, \mathcal{V}\} \\
 \downarrow & & \downarrow \\
 * & \longmapsto & F_S = T \circ i
 \end{array}$$