

$$I \diamond c \xrightarrow{\sigma} c \diamond I$$

$$\begin{array}{ccc} & \searrow \lambda & \swarrow \rho \\ & c & \end{array}$$

$$c \diamond d \xrightarrow{\sigma} d \diamond c$$

$$\begin{array}{ccc} & \searrow & \swarrow \sigma \\ & c \diamond d & \end{array}$$

$$(c \diamond d) \diamond e \xrightarrow{\sigma} (d \diamond c) \diamond e \xrightarrow{a} d \diamond (c \diamond e)$$

$$\downarrow a$$

$$\downarrow \sigma$$

$$c \diamond (d \diamond e) \xrightarrow{\sigma} (d \diamond e) \diamond c \xrightarrow{a} d \diamond (e \diamond c)$$