$$A \underset{g}{\overset{f}{\underset{\alpha}{\rightleftarrows}}} B$$

$$A \xrightarrow{G} \sin(\tan(\cos x)) \qquad A \xrightarrow{G} \sin(\tan(\cos x))$$

$$A \xrightarrow{G} B$$

$$A \xrightarrow{G} B$$

$$A \xrightarrow{G} B$$

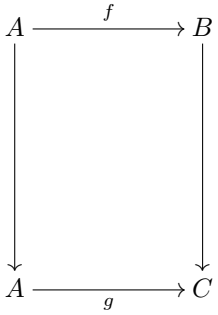
$$\overset{G}{} \quad A \longrightarrow B$$

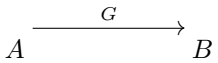
$$\begin{array}{ccc} A \times B \times C & \xrightarrow{f} & B \\ \downarrow & & \downarrow \\ A & \xrightarrow[g]{} & A \times B \times C \end{array}$$

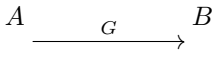
$$\begin{array}{ccc} A & \xrightarrow{f} & B \\ \downarrow & & \downarrow \\ A & \xrightarrow[g]{} & C \end{array}$$

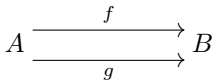
$$\begin{array}{ccc} A & \xrightarrow{f} & B \\ \downarrow & & \downarrow \\ A & \xrightarrow[g]{} & C \end{array}$$

$$\begin{array}{ccc} A & \xrightarrow{f} & B \\ \downarrow & & \downarrow \\ A & \xrightarrow[g]{} & C \end{array}$$

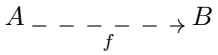


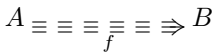


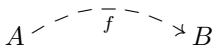


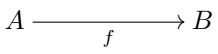


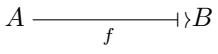
Shahram
ali

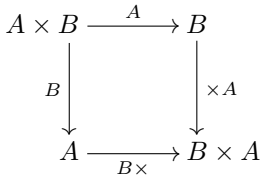


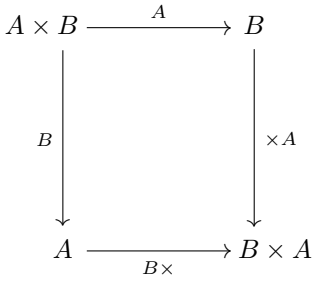


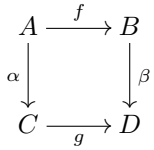


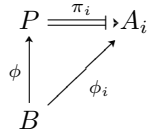


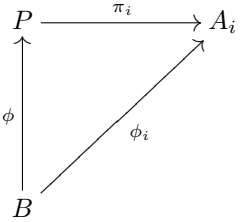


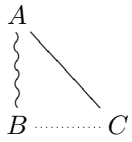


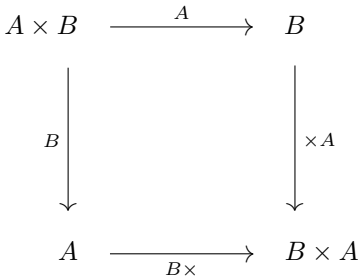

$A \times B$
A
B
$B \times A$
B
$\times A$
$B\times$

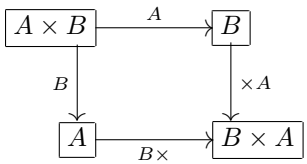

A
B
C
D
f
α
β
g

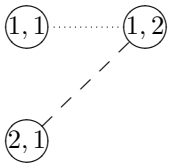

P
A_i
π_i
ϕ
ϕ_i
B

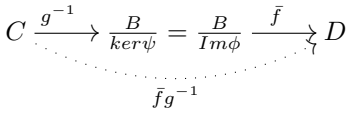

P
A_i
π_i
ϕ
ϕ_i
B

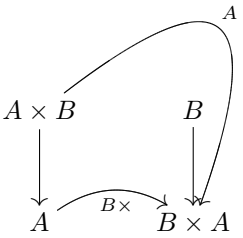

A
B
C

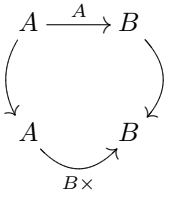

$A \times B$
A
B
$B \times A$
B
$\times A$
$B\times$

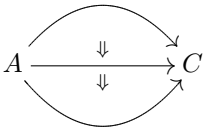

$A \times B$
A
B
B
$\times A$
A
$B \times A$
$B\times$

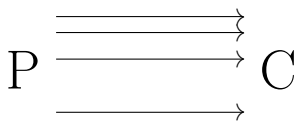

$1,1$
$1,2$
$2,1$


C
g^{-1}
$\frac{B}{ker\psi}$
$=$
$\frac{B}{Im\phi}$
$\bar{f}$
D
$\bar{f}g^{-1}$


A
$A \times B$
B
A
$B\times$
$B \times A$


A
A
B
A
B
$B\times$


A
C


P
C