

$$\chi_{EI} = \frac{1}{J_{IE} \Delta} \left[\begin{array}{c} \text{PC} \xrightarrow{J_{IE}} \text{PV} \\ \text{PV} \xrightarrow{J_{EI}} \text{PC} \end{array} \times \begin{array}{c} \text{SOM} \xrightarrow{J_{VS}} \text{VIP} \\ \text{VIP} \xrightarrow{J_{SV}} \text{SOM} \end{array} - \begin{array}{c} \text{PC} \xrightarrow{J_{IE}} \text{PV} \\ \text{PV} \xrightarrow{J_{VI}} \text{VIP} \\ \text{VIP} \xrightarrow{J_{SV}} \text{SOM} \\ \text{SOM} \xrightarrow{J_{ES}} \text{PC} \end{array} \right]$$

$$\chi_{II} = \frac{1}{\Delta} \left[\begin{array}{c} \text{PC} \xrightarrow{J_{EE}} \text{PC} \\ \text{SOM} \xrightarrow{J_{VS}} \text{VIP} \\ \text{VIP} \xrightarrow{J_{SV}} \text{SOM} \end{array} \times \begin{array}{c} \text{PC} \xrightarrow{J_{ES}} \text{SOM} \\ \text{SOM} \xrightarrow{J_{VE}} \text{VIP} \\ \text{VIP} \xrightarrow{J_{SV}} \text{SOM} \end{array} \right]$$

$$\chi_{SI} = \frac{1}{J_{IS} \Delta} \left[\begin{array}{c} \text{PC} \xrightarrow{J_{EE}} \text{PC} \\ \text{PV} \xrightarrow{J_{VI}} \text{VIP} \\ \text{VIP} \xrightarrow{J_{SV}} \text{SOM} \\ \text{SOM} \xrightarrow{J_{IS}} \text{PV} \end{array} \times \begin{array}{c} \text{PC} \xrightarrow{J_{EI}} \text{PV} \\ \text{PV} \xrightarrow{J_{IS}} \text{SOM} \\ \text{SOM} \xrightarrow{J_{SV}} \text{VIP} \\ \text{VIP} \xrightarrow{J_{VE}} \text{PC} \end{array} \right]$$