

# SOS-rules for synchronous message passing

PC2.2-30

for synchronous channel  $\textcolor{violet}{c}$ :

$$\frac{\ell_i \xleftarrow[c?x]{\hspace{-1cm}} i \ell'_i \wedge \ell_j \xleftarrow[c!v]{\hspace{-1cm}} j \ell'_j \wedge i \neq j}{\langle \ell_1, \dots, \ell_i, \dots, \ell_j, \dots, \ell_n, \eta, \xi \rangle \xrightarrow{\tau} \langle \ell_1, \dots, \ell'_i, \dots, \ell'_j, \dots, \ell_n, \eta', \xi' \rangle}$$

where  $\eta' = \eta[x:=v]$  and  $\xi' = \xi$