Example exercise 6

Tuesday, 28 April 2020

18.27

Using the SOS rules for TCCS prove that $\varepsilon(5).(\varepsilon(3).\text{Nil}+\text{b.Nil}) \xrightarrow{7} \varepsilon(1).\text{Nil}+\text{b.Nil}$

Solution:

$$\frac{(DEL_{2})}{\varepsilon(3). \text{Nil}} \xrightarrow{2} \varepsilon(1). \text{Nil}} \xrightarrow{b. \text{Nil}} \frac{(AcT_{d})}{b. \text{Nil}} \xrightarrow{2} b. \text{Nil}} (SUM_{d}) \xrightarrow{\varepsilon(3). \text{Nil} + b. \text{Nil}} \xrightarrow{2} \varepsilon(1). \text{Nil} + b. \text{Nil}} \times (DEL_{2}) \xrightarrow{\varepsilon(5). (\varepsilon(3). \text{Nil} + b. \text{Nil})} \xrightarrow{7} \varepsilon(1). \text{Nil} + b. \text{Nil}} \times (AcT_{d})$$