Reduction relation for MELL Proof-Nets

Let us consider :

$$\begin{aligned} E &= A \cup B \\ CE &= \{Ax\text{-}cut, \parr\text{-}\otimes, w\text{-}b, d\text{-}b, c\text{-}b, b\text{-}b\} \\ R &= CE \cup \{\mathtt{U}, \mathtt{V}\} \end{aligned}$$

The reduction relation on MELL proof-nets is generated by the reduction rules R and congruence axioms E :

$$p \to_{R/E} p' \text{ iff } \exists p_1, p_2 \; p \sim_E p_1 \to_R p_2 \sim_E p'$$

Termination properties of proof-nets

(Girard)

The reduction system generated by the reduction rules CE is SN.

(DiCosmo-Guerrini)

The reduction system generated by the reduction rules $CE \cup \mathtt{V}$ modulo the axioms E is SN.

(Polonovski)

The reduction relation R/E is SN.