Seminar Logic, Hand-in exercise 4

March 4, 2024

Exercise 1 [3 points] Show that the sequent rule

$$\frac{\mathbf{\Phi} \vdash \psi}{\mathbf{\Phi}, \mathbf{\Phi}' \vdash \psi}$$

is derivable from the rules in table 2 on page 41 of Pitts' Categorical Logic.

Exercise 2 [7 points] Show that in Example 5.2.3, the "inclusive" subsets of a Cpo are the closed sets of a topology.