1 System SLSE

Definition 1.1. Structures in SLSE (Symmetric Logic of Sequenced Exponentials) contain countably many atoms, denoted a,b,c,d,.. [1]

Theorem 1.2. Socrates is mortal.

Proof. Socrates is a man. All men are mortal. Therefore Socrates is mortal.

2 Permutability of Rules

Trust me bro

3 Cut elimination for ???

$$\mathbf{S}'(?(U,U'),!(V,V')) \\ \mathbf{S}'(?(U,[U,?R]),!(V,V')) \\ \mathbf{S}'\{?(U,[U',?R],V,V')\} \\ \mathbf{S}'\{?(U,[(U',V),?R],V'\} \\ \\$$

References

[1] Lutz Straßburger. Mell in the calculus of structures. *Theoretical Computer Science*, 309(1-3):213–285, 2003.