

Figure 1: Partial proof net (module) for composition

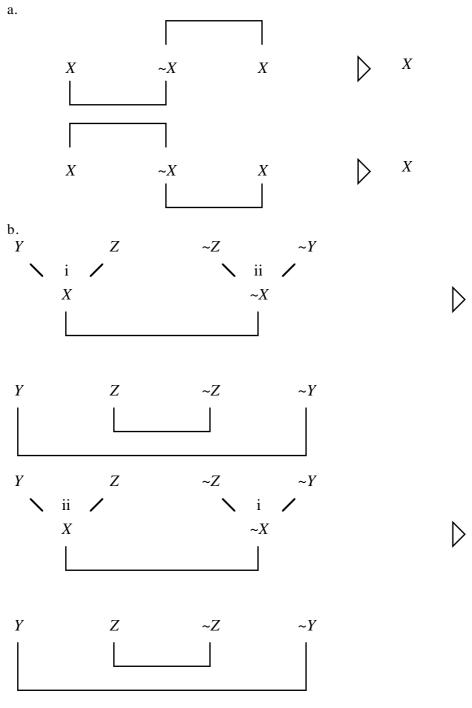
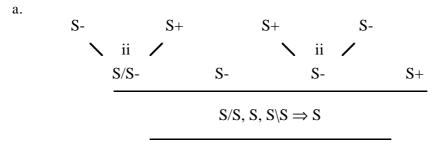
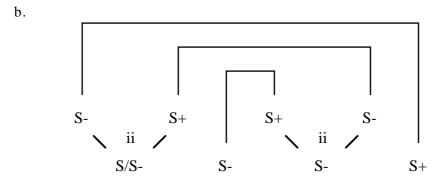


Figure 2: Proof-net Cut elimination reductions



## $sometimes + it + rains + surprisingly: \ S$



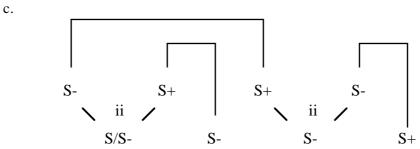


Figure 3: Multiplicity of structural ambiguity

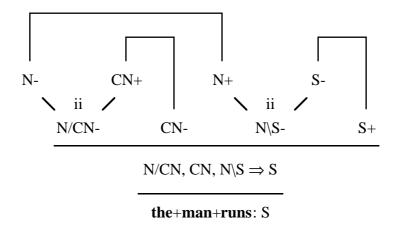
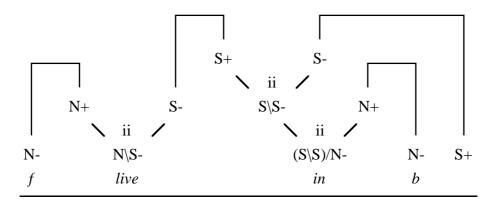


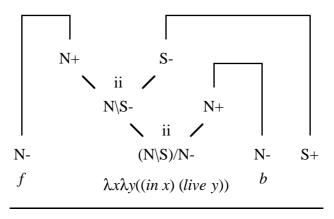
Figure 4: Non-existence of spurious ambiguity



 $N, N \setminus S, (S \setminus S) / N, N \Rightarrow S$ 

## frodo+lives+in+bag+end: S

Figure 5: Proof-net for 'Frodo lives in Bag End'



 $N, (N \setminus S)/N, N \Rightarrow S$ 

## frodo+inhabits+bag+end: S

Figure 6: Proof-net for 'Frodo inhabits Bag End'

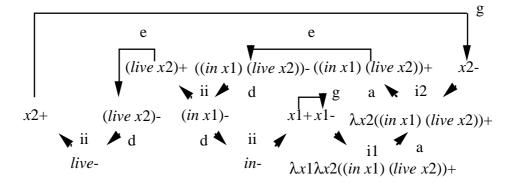
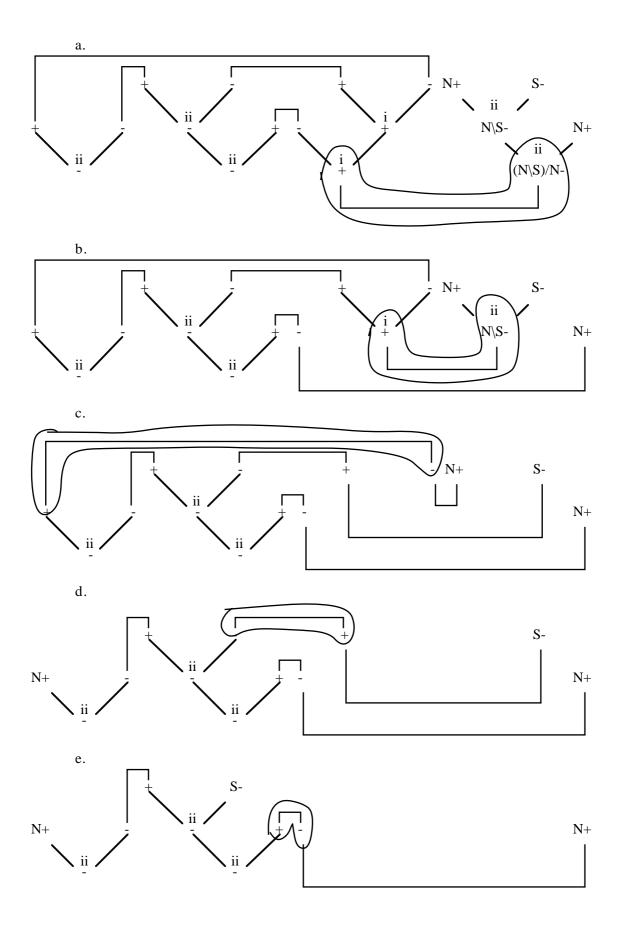


Figure 7: Unfolding of lexical semantics of 'inhabits' into a proof-net



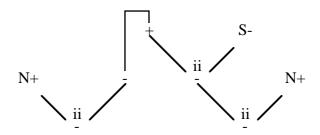


Figure 8: Partial evaluation of lexical substitution for 'inhabits'

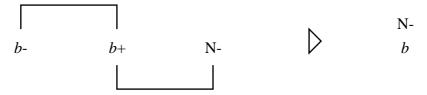


Figure 9: Partial evaluation of lexical substitution for 'Bag End'

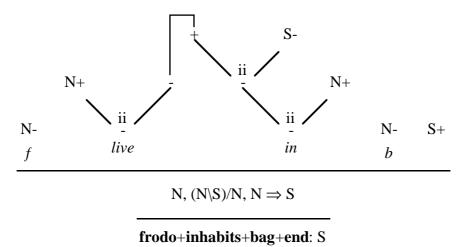


Figure 10: Proof frame for 'Frodo inhabits Bag End' following lexical precompilation