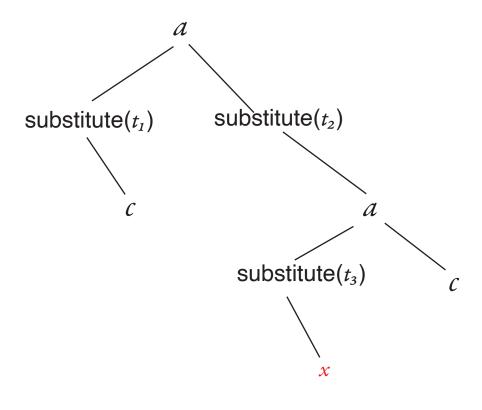
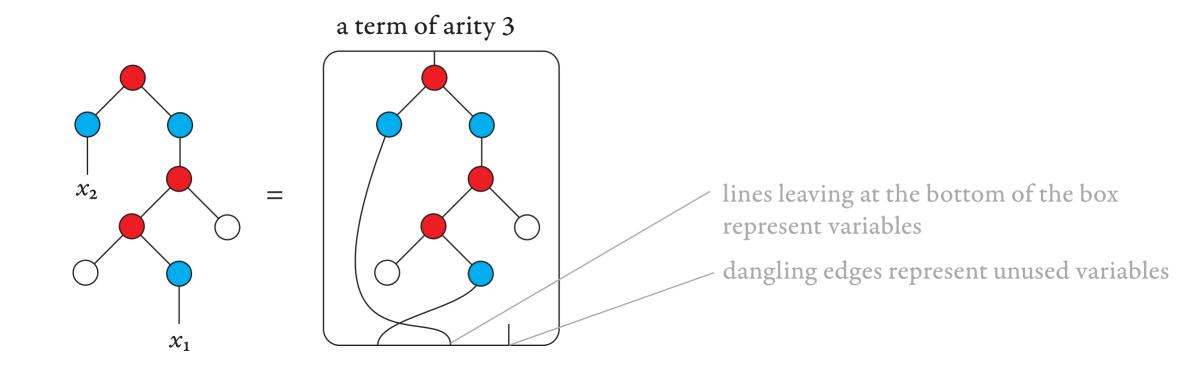
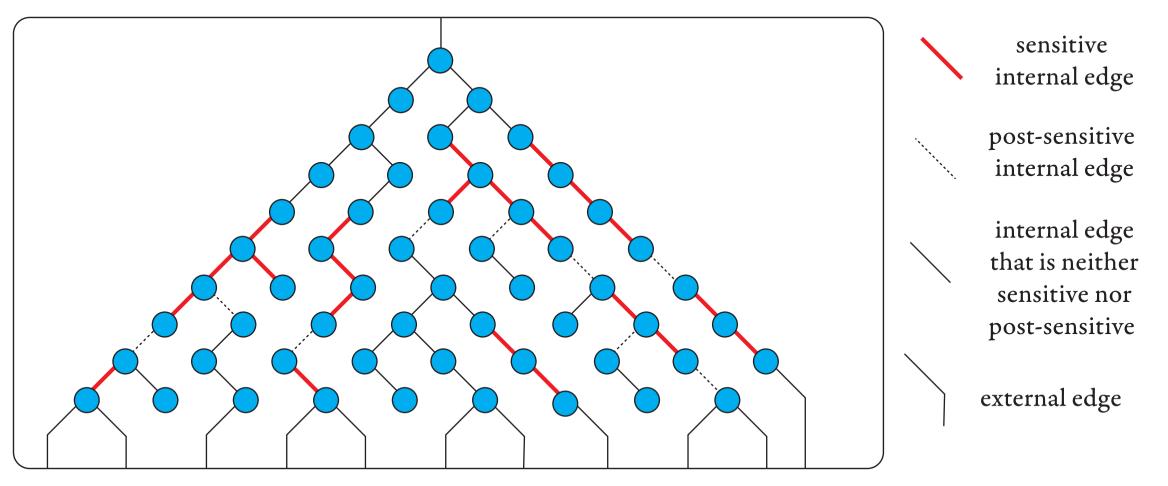


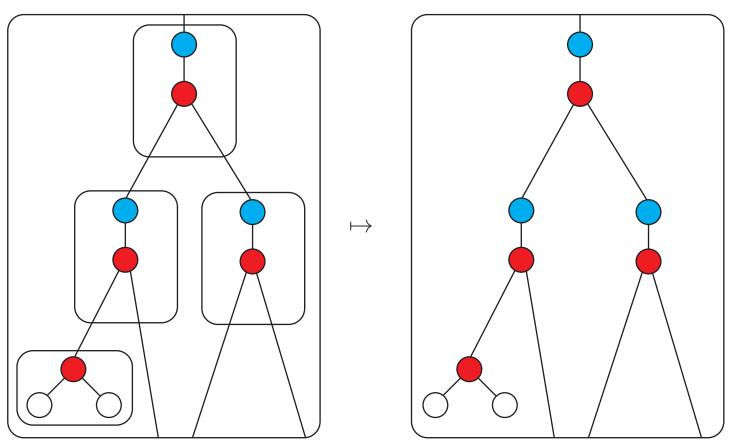
substitute(t)







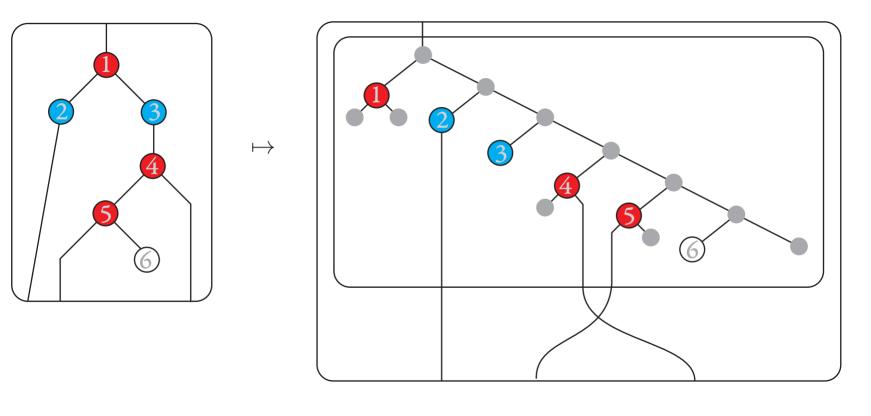






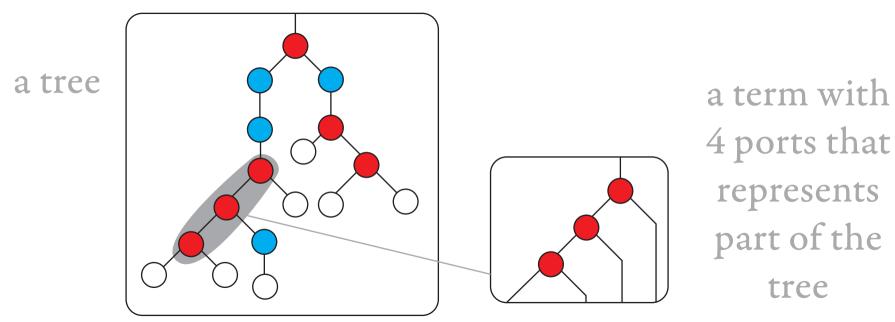






a factorisation equivalence































If the root has arity n, and $1 \le i < j \le n$, then all ports of the *j*-th subterm of the root are after all ports of the *i*-th subterm of the root



satisfies (*)

violates (*)

a register update

its dual

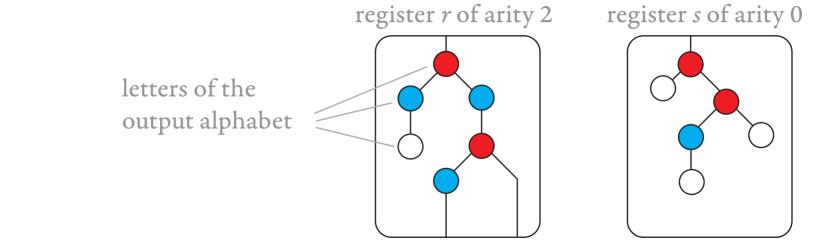


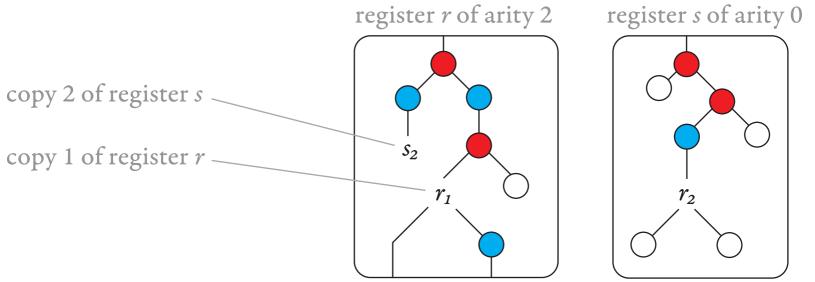
Variable *i.j* represents register *i* in the *j*-th argument of the reigster update.

In the dual, this variable is mapped to the *i*-th edge which enters the *j*-th port of the reducer.

















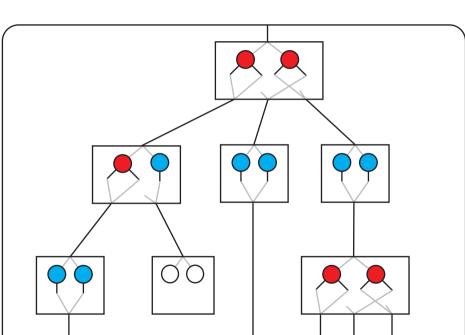


factors with branching nodes

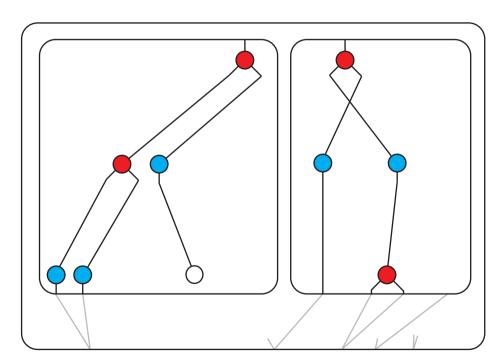


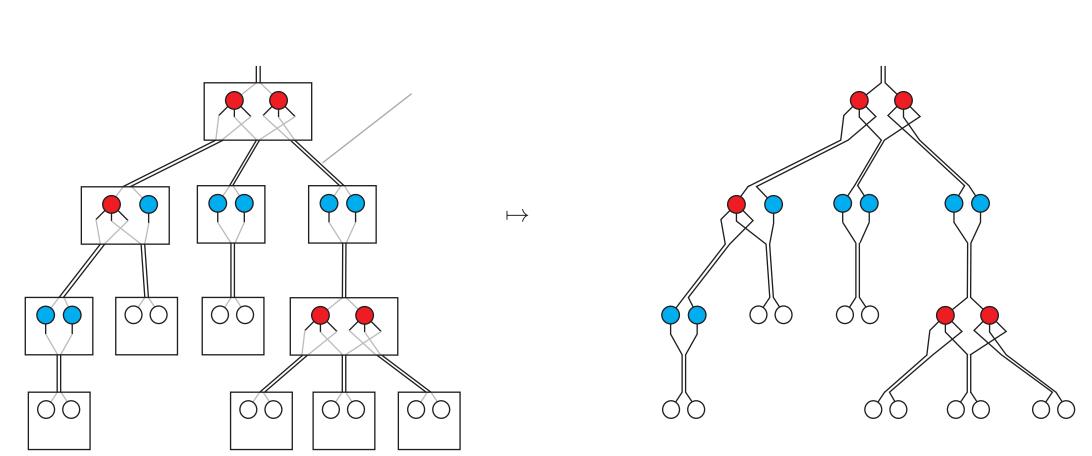


a term of matrix powers



its term unfolding















λ-term of type *o*



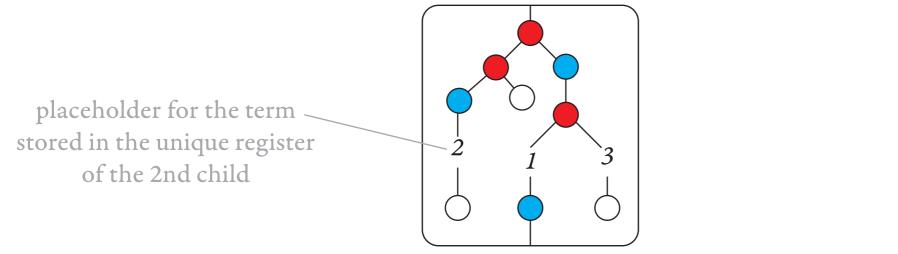




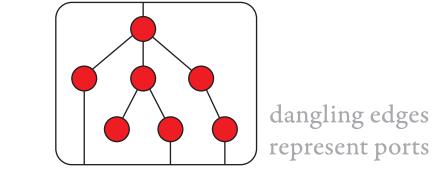
 λx .

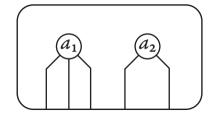


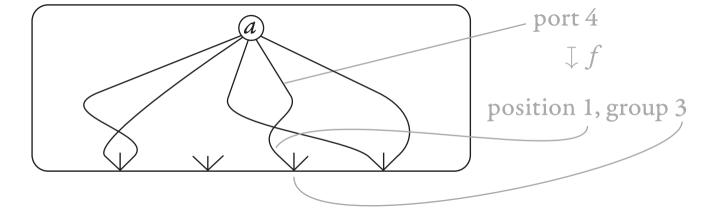




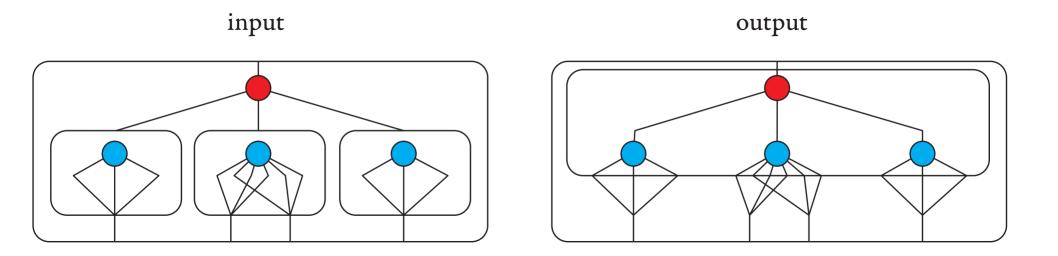


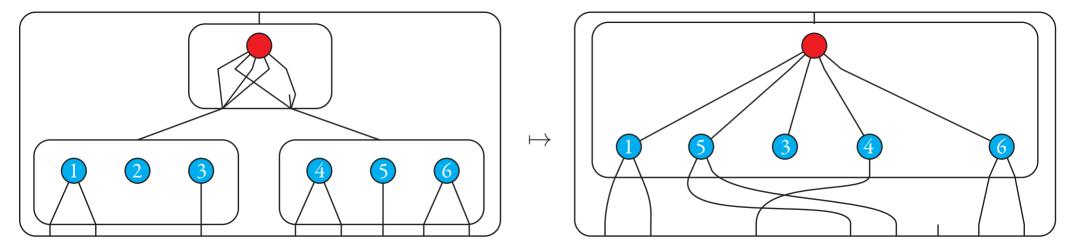
















its representation as a λ -term





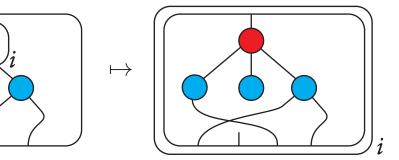


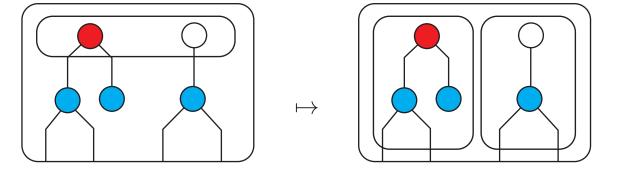


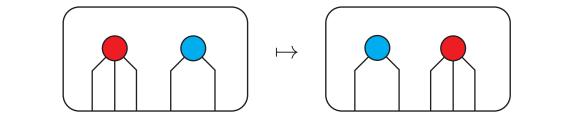






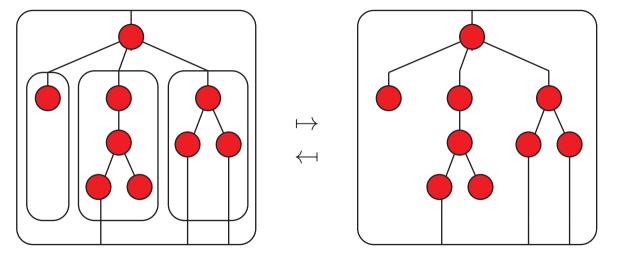


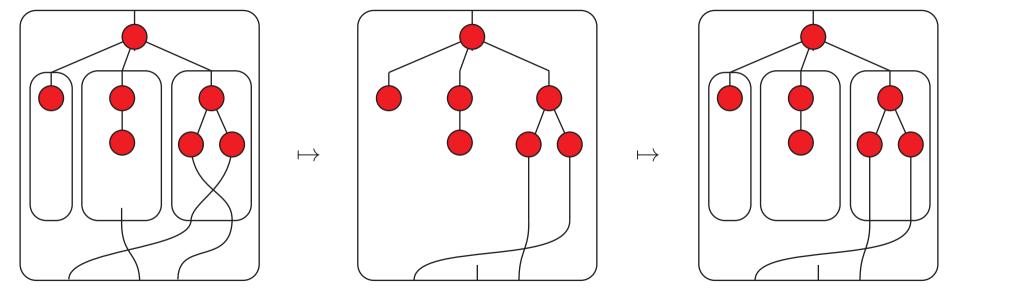










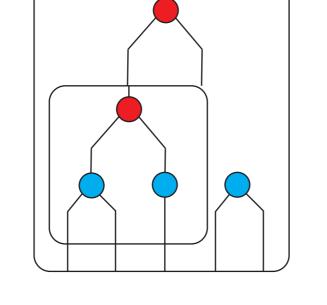


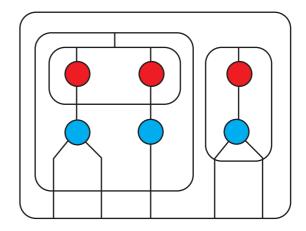


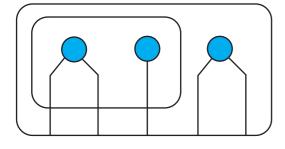






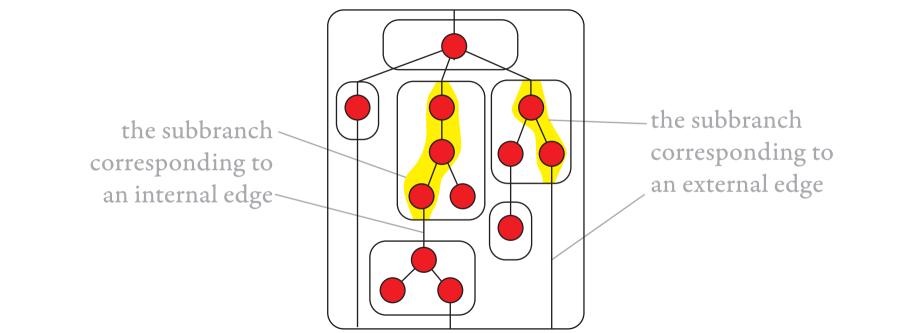


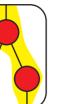






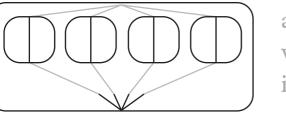






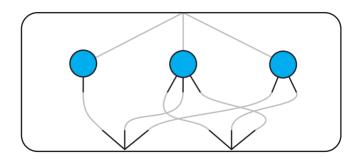
a branch can be visualised as a term with a distinguished root-to-port path

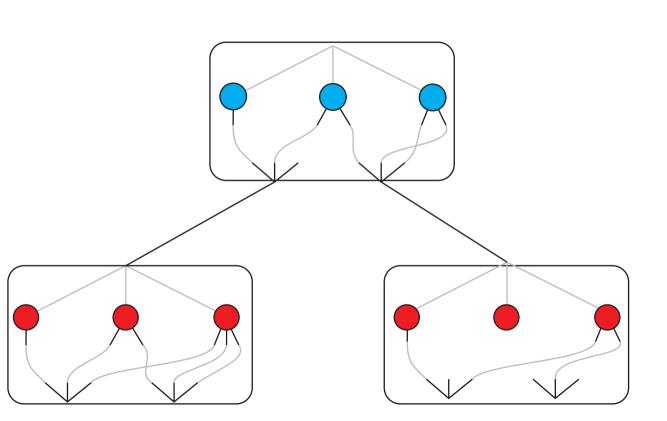


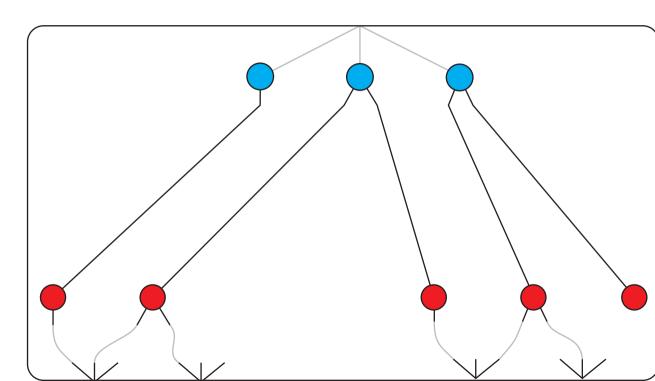


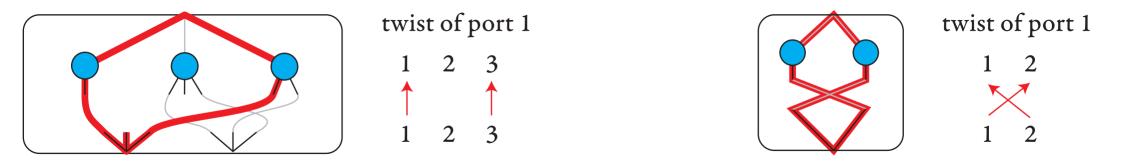
a tuple of *k* identity terms with all their ports folded into one

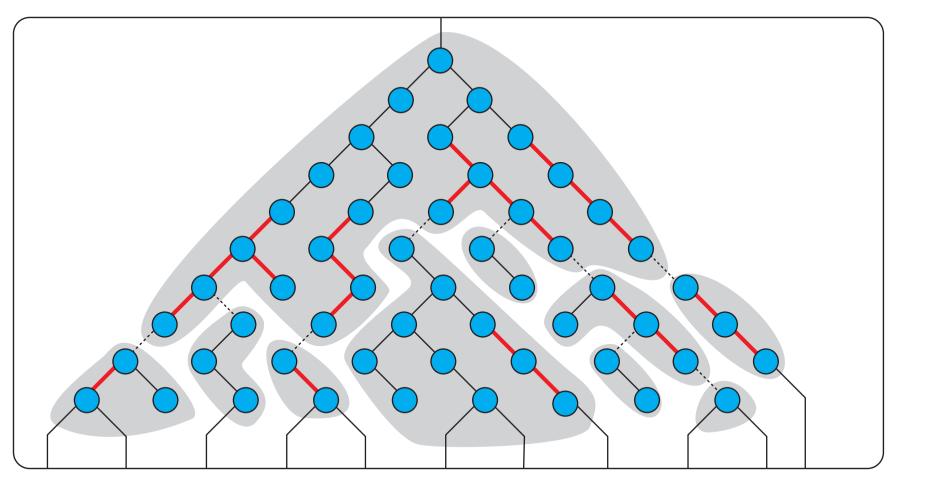
$$\Sigma = \{ \bigcirc, \bigcirc, \bigcirc \}$$
 $a \in \Sigma^{[2]}$ $b \in \Sigma^{[2]}$

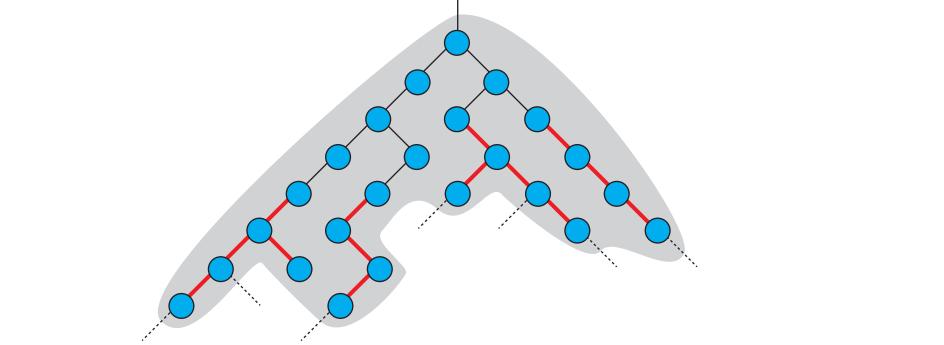


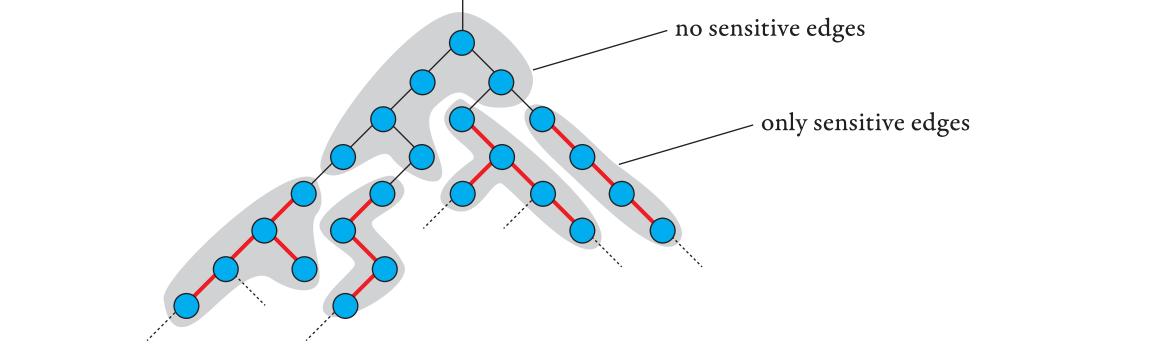


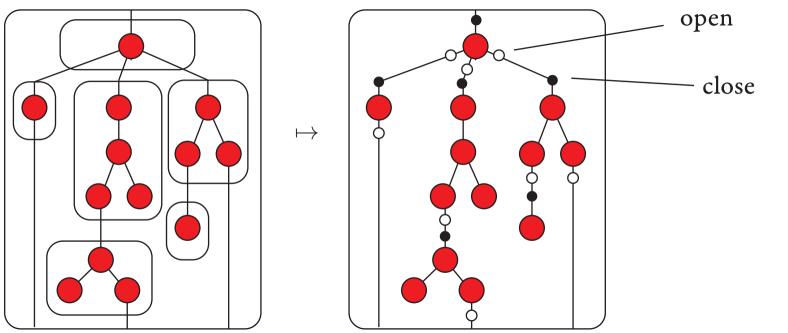






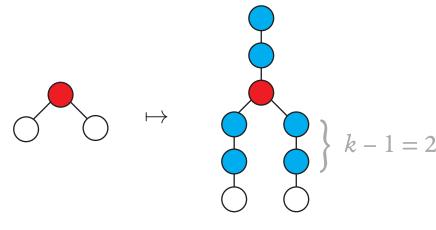






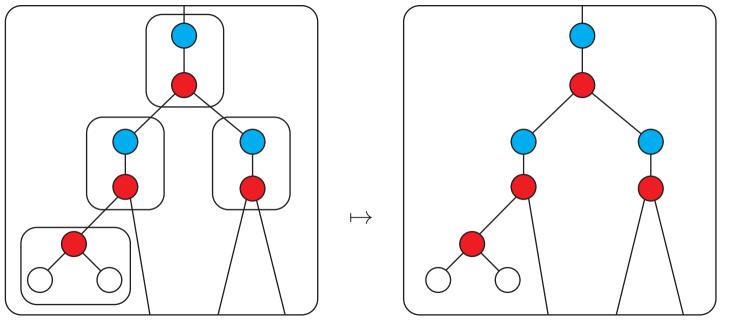




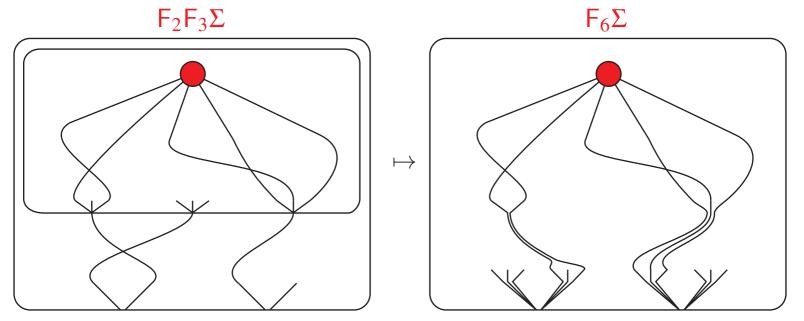


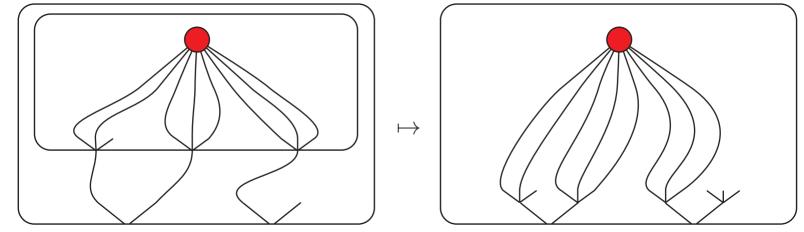


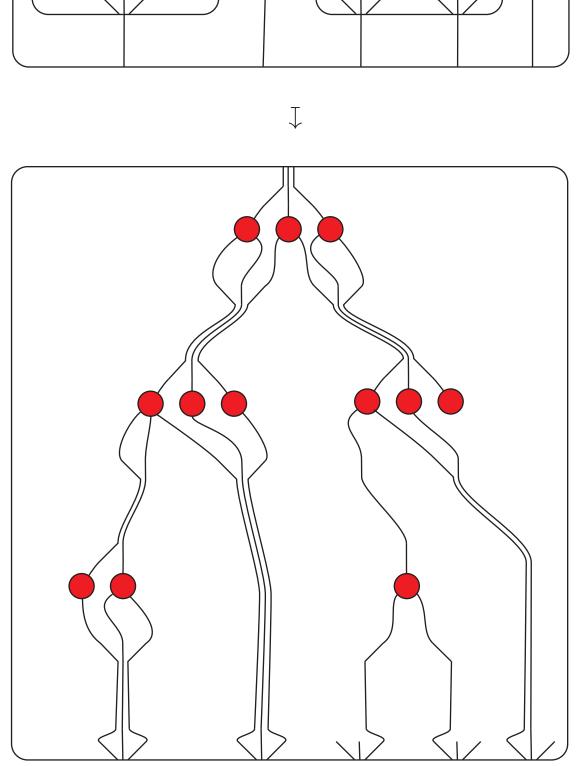


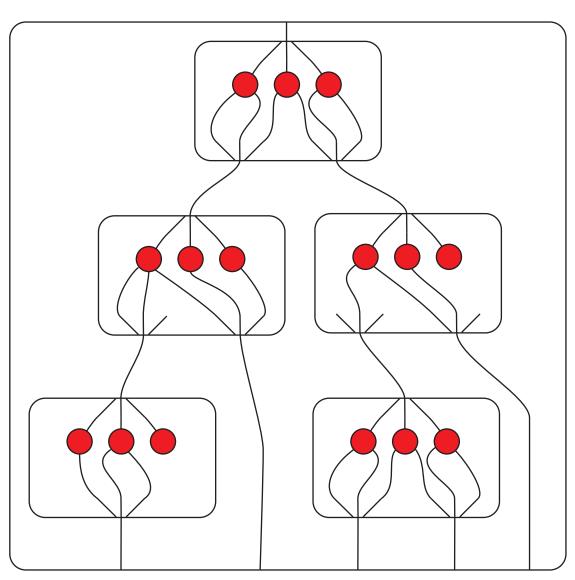


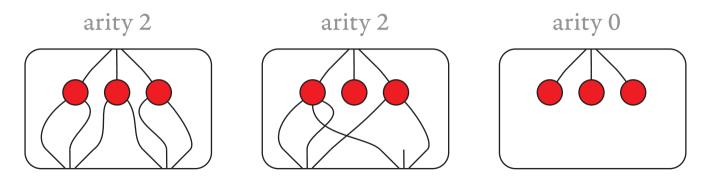


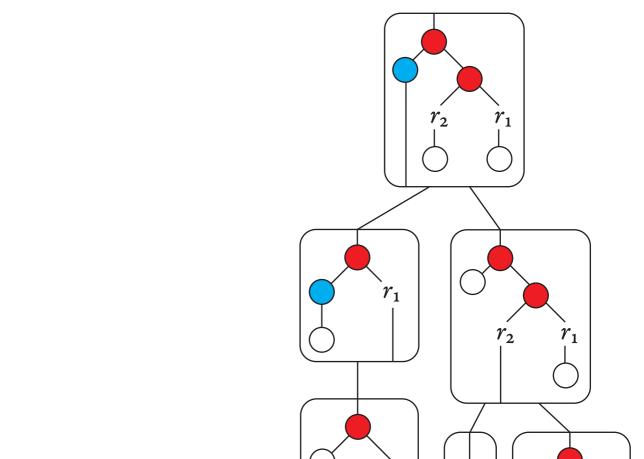


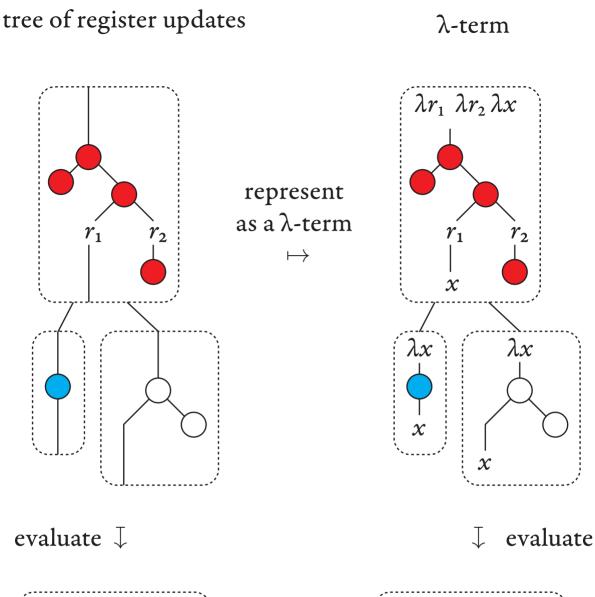


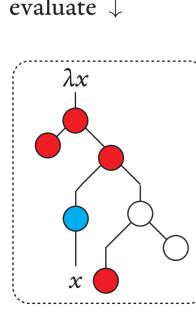


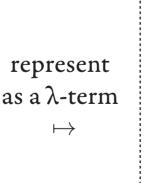


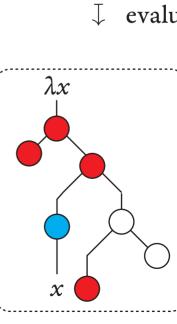






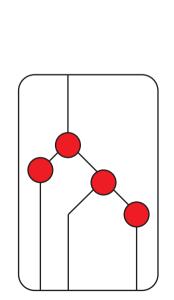


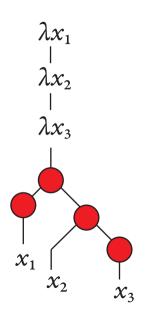


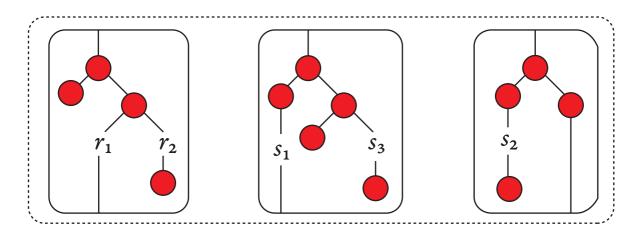


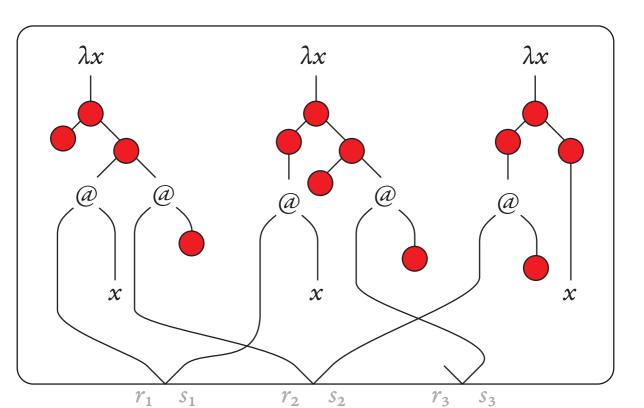
a term

its λ -representation

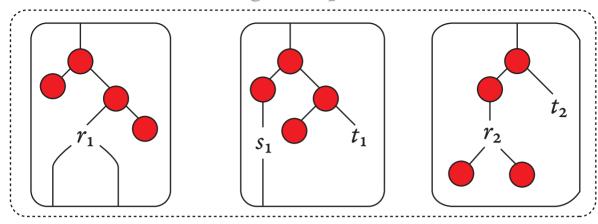








a register update



its λ -representation

