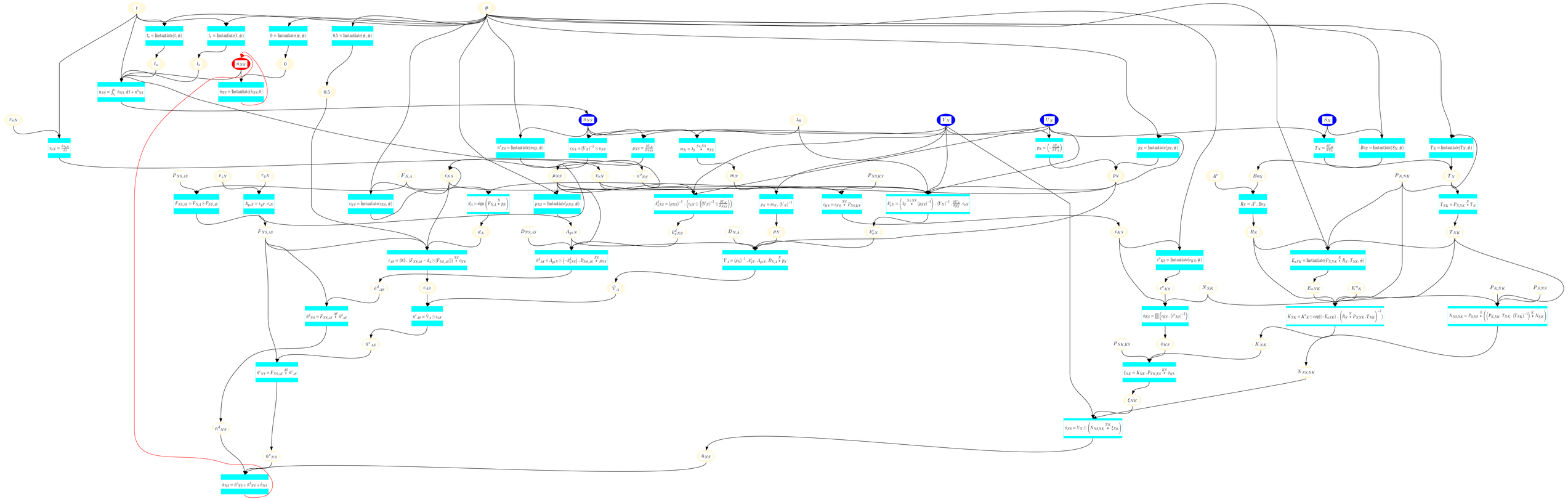
t
#
$t_0 = \text{Instantiate}(t, \#)$
$t_e = \text{Instantiate}(t, \#)$
$0 = \text{Instantiate}(\#, \#)$
$0.5 = \text{Instantiate}(\#, \#)$
t_0
t_e
0
0.5
$n_{NS} = \int_{t_0}^{t_e} \dot{n}_{NS}\, dt + n^0_{NS}$
$\dot{n}_{NS} = \text{Instantiate}(\dot{n}_{NS}, \#)$
$\dot{n}_{NS}$
r_{sN}
$\dot{r}_{sN} = \frac{\partial r_{sN}}{\partial t}$
$n^0_{NS} = \text{Instantiate}(n_{NS}, \#)$
$c_{NS} = (V_S)^{-1} \otimes n_{NS}$
$\mu_{NS} = \frac{\partial U_N}{\partial n_{NS}}$
$m_N = \lambda_S \overset{S_S NS}{\star} n_{NS}$
λ_S
V_N
U_N
$p_N = \left(-\frac{\partial U_N}{\partial V_N}\right)$
$p_N = \text{Instantiate}(p_N, \#)$
S_N
$T_N = \frac{\partial U_N}{\partial S_N}$
$B_{ON} = \text{Instantiate}(S_N, \#)$
$T_N = \text{Instantiate}(T_N, \#)$
$P_{NS,AS}$
r_{sN}
r_{yN}
$F_{N,A}$
c_{NS}
μ_{NS}
r_{sN}
n^0_{NS}
m_N
$P_{NS,KS}$
p_N
A^0
B_{ON}
$P_{N,NK}$
T_N
$F_{NS,AS} = F_{N,A} \overset{N}{\star} P_{NS,AS}$
$\dot{A}_{yN} = r_{yN} \cdot r_{sN}$
$c_{NS} = \text{Instantiate}(c_{NS}, \#)$
$d_A = \text{sign}\left(F_{N,A} \overset{N}{\star} p_N\right)$
$\mu_{NS} = \text{Instantiate}(\mu_{NS}, \#)$
$\dot{n}^d_{NS} = (\mu_{NS})^{-1} \cdot \left(c_{NS} \otimes \left((V_S)^{-1} \otimes \frac{\partial U_N}{\partial n_{NS}}\right)\right)$
$p_N = m_N \cdot (V_S)^{-1}$
$c_{NS} = c_{NS} \overset{NS}{\star} P_{NS,KS}$
$k^e_N = \left(\lambda_S \overset{S\,c_{NS}}{\star} (\mu_{NS})^{-1}\right) \cdot (V_S)^{-1} \cdot \frac{\partial U_N}{\partial p_N} \cdot r_{sN}$
$R_{ON} = A^0 \cdot B_{ON}$
$T_{NK} = P_{N,NK} \overset{N}{\star} T_N$
$F_{NS,AS}$
d_A
$D_{NS,AS}$
$\dot{A}_{yN}$
$\dot{n}^d_{NS}$
$D_{N,A}$
ρ_N
k^e_N
c_{KS}
R_N
T_{NK}
$c_{AS} = (0.5 \cdot (F_{NS,AS} - d_A \otimes |F_{NS,AS}|)) \overset{NS}{\star} c_{NS}$
$\dot{n}^d_{AS} = \dot{A}_{yN} \otimes \left(-\dot{n}^d_{NS}\right) \cdot D_{NS,AS} \overset{NS}{\star} \mu_{NS}$
$\dot{V}_A = (\rho_N)^{-1} \cdot k^e_N \cdot \dot{A}_{yN} \cdot D_{N,A} \overset{N}{\star} \rho_N$
$c^e_{KS} = \text{Instantiate}(c_{KS}, \#)$
$E_{uNK} = \text{Instantiate}(P_{N,NK} \overset{N}{\star} R_N \cdot T_{NK}, \#)$
$\dot{n}^d_{AS}$
c_{AS}
$\dot{V}_A$
c^e_{KS}
N_{SK}
E_{uNK}
K^u_K
$P_{K,NK}$
$P_{S,NS}$
$\dot{n}^d_{NS} = F_{NS,AS} \overset{AS}{\star} \dot{n}^d_{AS}$
$\dot{n}^d_{AS} = V_A \otimes c_{AS}$
$\phi_{KS} = \prod\left(c_{KS} \cdot (\delta^e_{KS})^{-1}\right)$
$K_{NK} = K^u_K \otimes \exp(-E_{uNK}) \cdot \left(R_N \overset{N}{\star} P_{N,NK} \cdot T_{NK}\right)^{-1}$
$N_{NS,NK} = P_{S,NS} \overset{S}{\star} \left(\left(P_{K,NK} \cdot T_{NK} \cdot (T_{NK})^{-1}\right) \overset{K}{\star} N_{SK}\right)$
$\dot{n}^{\prime}_{AS}$
$P_{NK,KS}$
ϕ_{KS}
K_{NK}
$\dot{n}^{\prime}_{NS} = F_{NS,AS} \overset{AS}{\star} \dot{n}^{\prime}_{AS}$
$\xi_{NK} = K_{NK} \cdot P_{NK,KS} \overset{KS}{\star} \phi_{KS}$
$N_{NS,NK}$
$\dot{n}^{\prime}_{NS}$
ξ_{NK}
$\dot{n}^{\prime}_{NS}$
$\dot{n}_{NS} = V_S \otimes \left(N_{NS,NK} \overset{NK}{\star} \xi_{NK}\right)$
$\dot{n}_{NS}$
$\dot{n}_{NS} = \dot{n}^{\prime}_{NS} + \dot{n}^d_{NS} + \dot{n}_{NS}$