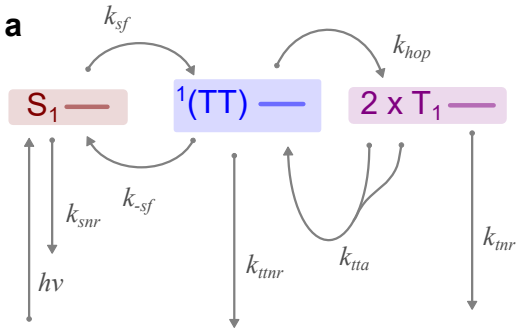
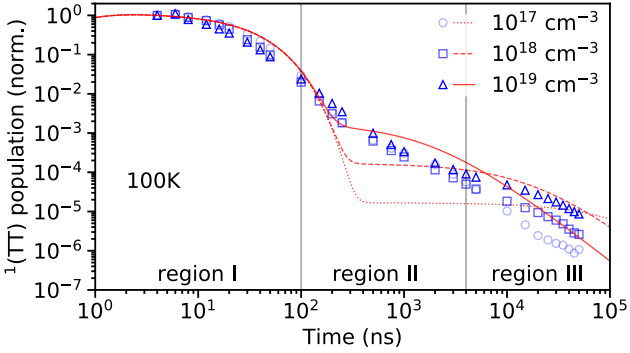

a
k_{sf}
k_{hop}
S_1
$^1(TT)$
$2 \times T_1$
k_{-sf}
k_{snr}
$h\nu$
k_{ttnr}
k_{tta}
k_{tnr}


b
10^{17} cm^{-3}
10^{18} cm^{-3}
10^{19} cm^{-3}
100K
region I
region II
region III
^{1}(TT) population (norm.)
Time (ns)
10^0
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
10^{-7}
10^1
10^2
10^3
10^4
10^5