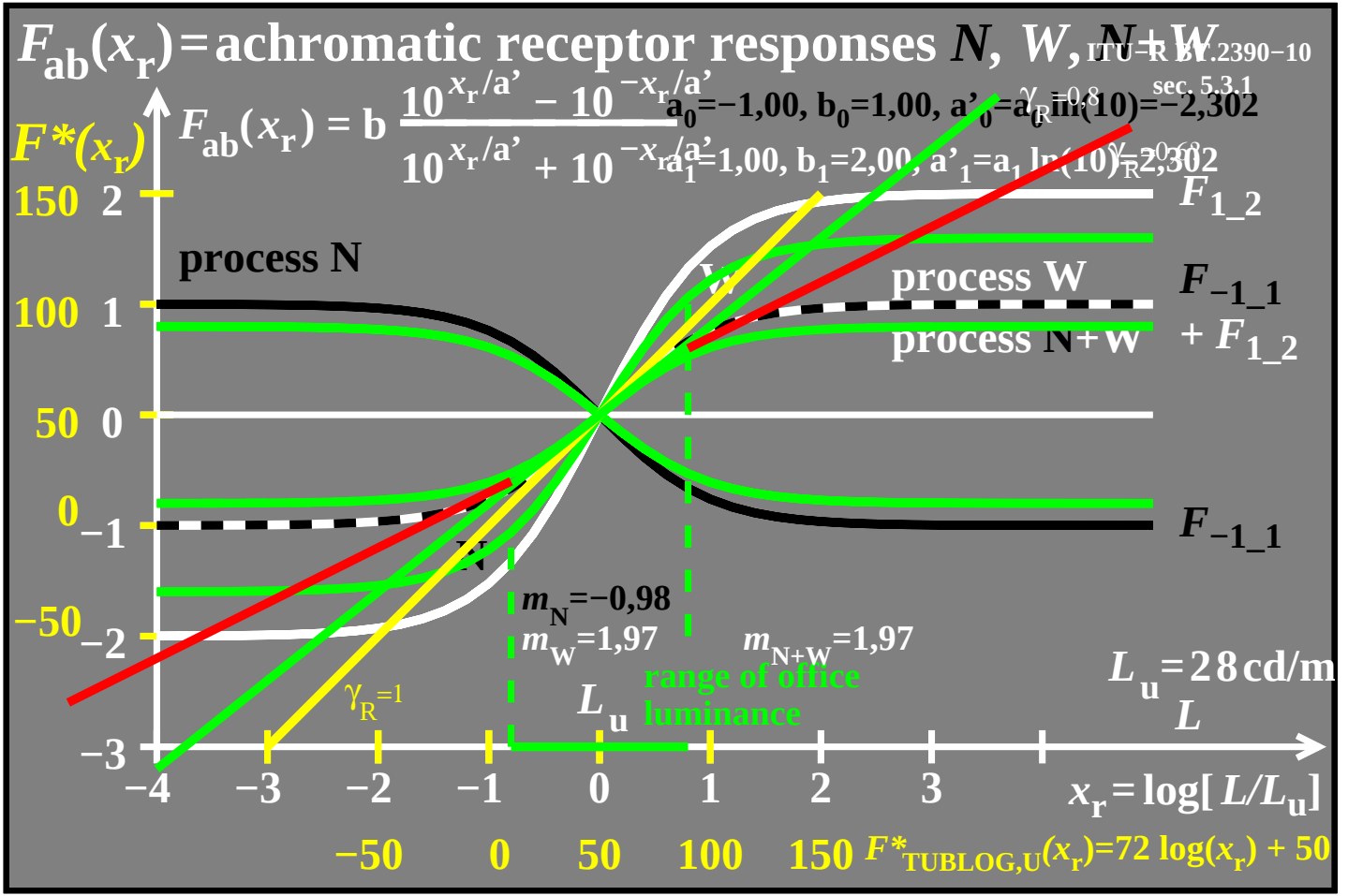
$F_{ab}(x_r)$ = achromatic receptor responses N, W, $N+W$
ITU-R BT.2390-10
sec. 5.3.1
$F_{ab}(x_r) = b \frac{10^{x_r/a'} - 10^{-x_r/a'}}{10^{x_r/a'} + 10^{-x_r/a'}}$
$a_0=-1{,}00$, $b_0=1{,}00$, $a'_0=a_0 \ln(10)=-2{,}302$ $\gamma_R=0{,}8$
$a_1=1{,}00$, $b_1=2{,}00$, $a'_1=a_1 \ln(10)=2{,}302$ $\gamma_R=0{,}60$
$F^*(x_r)$
150 2
100 1
50 0
0 −1
−50 −2
−3
process N
process W
process N+W
F_{1_2}
F_{-1_1}
$+ F_{1_2}$
F_{-1_1}
$m_N=-0{,}98$
$m_W=1{,}97$
$m_{N+W}=1{,}97$
$\gamma_R=1$
L_u
range of office luminance
$L_u = 28$ cd/m
L
−4 −3 −2 −1 0 1 2 3
$x_r = \log[L/L_u]$
−50 0 50 100 150
$F^*_{TUBLOG,U}(x_r)=72 \log(x_r) + 50$

heb11−6a