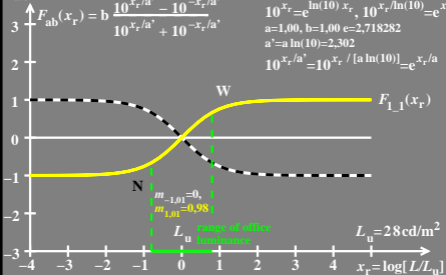


$F_{ab}(x_r)$ = achromatic receptor response

$$F_{ab}(x_r) = b \frac{10^{x_r/a'} - 10^{-x_r/a'}}{10^{x_r/a'} + 10^{-x_r/a'}}$$

$10^{x_r} = e^{\ln(10) x_r}$, $10^{x_r/\ln(10)} = e^{x_r}$
 $a=1,00$, $b=1,00$ $e=2,718282$
 $a'=a \ln(10)=2,302$
 $10^{x_r/a'} = 10^{x_r / [a \ln(10)]} = e^{x_r/a}$



$m_{-1,01} = 0,$
 $m_{1,01} = 0,98$

L_u range of office
 luminance

$L_u = 28 \text{ cd/m}^2$

$x_r = \log[L/L_u]$