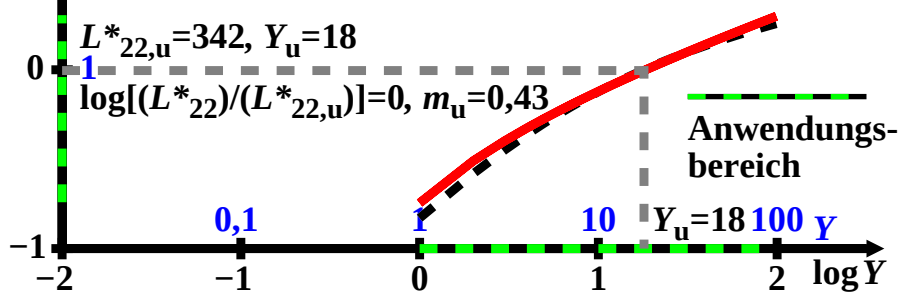
$\log(L^*_{22}/L^*_{22,u})$ normierte TUBJ22-Helligkeit
$\log(L^*_{22}/L^*_{22,u})$
L^*/L^*_u normierte CIELAB-Helligkeit
$\log(L^*/L^*_u)$

TUBJ22 und CIELAB-Helligkeit

$$L^*_{22} = \frac{\ln[1 + A_2\, Y]}{A_1\, A_2} = \frac{\ln[1 + A_{2u}(Y/Y_u)]}{A_1\, A_{2u}}$$

A_1=0,0170, A_2=0,3343, A_{2u}=5,391, Y_u=18

$L^* = 116\,(Y/Y_n)^{1/3} - 16$ $(Y_n=100,\ 1 \le Y \le 100)$



egw71−5a

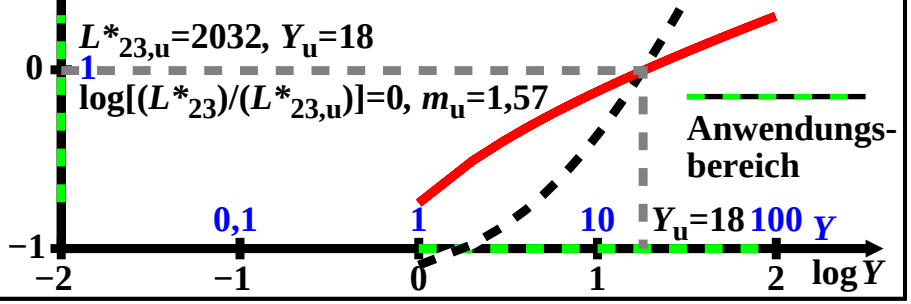
$\log(L^*_{23}/L^*_{23,u})$ normierte TUBJ23-Helligkeit
$\log(L^*_{23}/L^*_{23,u})$
L^*/L^*_u normierte CIELAB-Helligkeit
$\log(L^*/L^*_u)$

TUBJ23 und CIELAB-Helligkeit

$$L^*_{23} = \frac{[1+A_2\, Y]^{(A_3+1)}}{A_1\, A_2\, (A_3+1)} = \frac{[1+A_{2u}(Y/Y_u)]^{(A_3+1)}}{A_1\, A_{2u}\, (A_3+1)}$$

A_1=0,0251, A_2=0,1566, A_3=1,1070, Y_u=18

$L^* = 116\,(Y/Y_n)^{1/3} - 16$ $(Y_n=100,\ 1 \le Y \le 100)$



egw70−6a

$\log[(Y/\Delta Y)\,/\,(Y/\Delta Y)_u]$ CIE Y-Kontrast
normiert für $(Y/\Delta Y)_u$
TUBJ22 & CIELAB

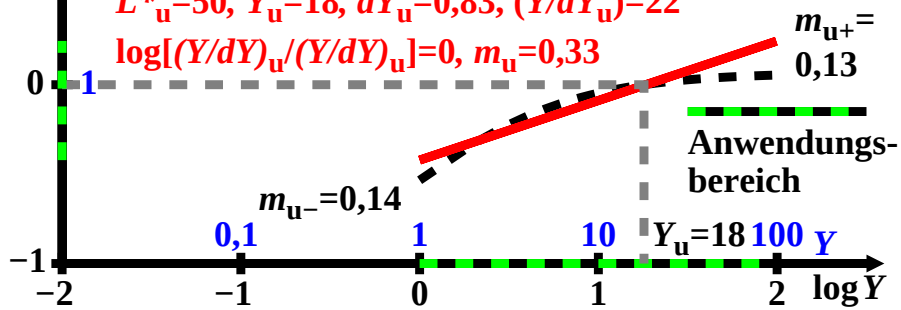
$C_r/C_{ru} = (Y/\Delta Y)/(Y/\Delta Y)_u$
A_1=0,0170, A_2=0,3343
normierter TUBJ22-Kontrast A_{2u}=5,391, Y_u=18

$\log[(Y/dY)/(Y/dY)_u] = [(1+A_{2u})\,(Y/Y_u)]\,/\,[1+A_{2u}(Y/Y_u)]$

normierter CIELAB-Kontrast

$\log[(Y/dY)/(Y/dY)_u] = (1/3)\log[(Y/dY_u)]$

L^*_u=50, Y_u=18, dY_u=0,83, (Y/dY_u)=22
$\log[(Y/dY)_u/(Y/dY)_u]$=0, m_u=0,33



egw71−7a

$\log[(Y/\Delta Y)\,/\,(Y/\Delta Y)_u]$ CIE Y-Kontrast
normiert für $(Y/\Delta Y)_u$
TUBJ23 & CIELAB

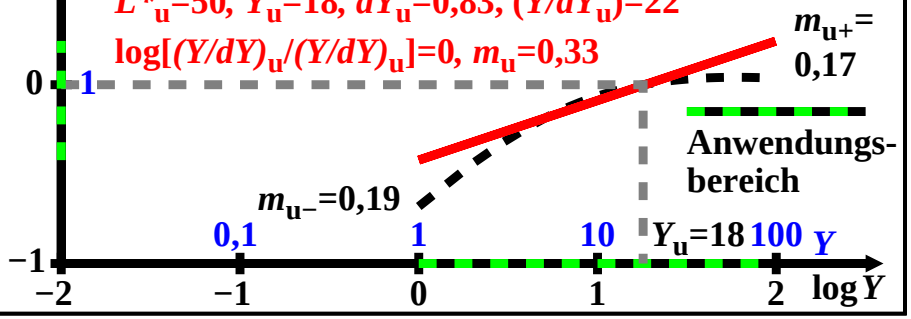
$C_r/C_{ru} = (Y/\Delta Y)/(Y/\Delta Y)_u$
A_2=0,1566, A_{2u}=2,778
normierter TUBJ23-Kontrast A_3=1,107, Y_u=18

$[(Y/dY)/(Y/dY)_u] = \{[Y/Y_u][1+A_{2u}]^{A_3}\}\,/\,\{[1+A_2 Y]^{A_3}\}$

normierter CIELAB-Kontrast

$\log[(Y/dY)/(Y/dY)_u] = (1/3)\log[(Y/dY_u)]$

L^*_u=50, Y_u=18, dY_u=0,83, (Y/dY_u)=22
$\log[(Y/dY)_u/(Y/dY)_u]$=0, m_u=0,33



egw70−6a

egw71−7n