

$\log(\Delta Y/Y)$

LABJNDu4

Normfarbwertempfindlichkeit

$Y_{nc} = L^*_{wRGBnc} = 100, 52, 87, 31$

$S_r = (\Delta Y/Y)$

0 -1

$$L^*_{LABJNDu4} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$L^*_{LABJNDu4} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

$$dY/Y = A_{0n}(A_{1n} + A_{2n}Y)/Y = A_{0n}(A_{1n} + A_{2u}x)/Y$$

-1 0,1

$$(dY/Y)_{90} = 0,0025, A_{0n} = 1,0, A_{2u} = 0,0438, c_x = 0,42$$

$$(dY/Y)_{18} = 0,0028, A_{1n} = 0,007, A_{2n} = 0,0024$$

$$(dY/Y)_{3,6} = 0,0044, Y_u = 18, dY_u = 0,05$$

-2 0,01

$$\log(dY/Y) = -2,54, m_u = -0,15$$

$$L^*_u = 1187, dY_u = 0,05, dY_u/Y_u = 0,0028$$

-3

0,1

1

$x_N = 0,2$

1

$x_W = 5$

100

Y

$\log(Y)$

Anwendungsbereich