

$\log(\Delta Y)$

LABJNDu4

Normfarbwertdifferenz

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

ΔY

1-10

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

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

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

$$A_{0n,D65} = 1,5, A_{0n,A} = 1,0, \text{ siehe CIE 230:2019}$$

-1-0,1

$$L^*_{w/Y_{98}} = 0,22, A_{1n} = 1,0, A_{2n} = 0,0435, x = 0,42$$

$$\log(dY) = 0,05, A_{1n} = 0,8307, A_{2n} = 0,5044$$

$$dY_{3,6} = 0,01, Y_u = 18, dY_u = 0,05$$

Anwendungsbereich

-2

-1

0

1

10

100

Y

$\log(Y)$

$x_N = 0,2$

$x_W = 5$

1

$x_u = 1$