

$\log(\Delta Y)$

LABJNDu4

Normfarbwertdifferenz

$Y_{nc} = Y_{wRGBnc} = 100, 21, 72, 7$

ΔY
1-10

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

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

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

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

-1-0,1

$$l^*_u = 1187, dY_u = 0,05, dY/Y = 0,0028$$

$$A_{1n} = 0,22, A_{2n} = 1,0, A_{2u} = 0,0438, x = 0,42$$

$$\log(dY) = 0,05, A_{1n} = 0,8907, A_{2n} = 0,5044$$

$$dY_{3,6} = 0,01, Y_u = 18, dY_u = 0,005$$

Anwendungsbereich

-2-0,1 1 10 100 Y
-1 0 $x_N = 0,2$ 1 $x_W = 5$ 2 $\log(Y)$