

$\log(\Delta Y)$

LABJNDu6

tristimulus value difference

$$Y_{nc} = Y_w \text{RGB}_{nc} = 100, 21, 72, 7$$

ΔY

1-10

$$t^*_{LABJNDu6} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$t^*_{LABJNDu6} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

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

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

$$t^*_u = 498, dY_u = 0,12, dY_{90}/Y_u = 0,0067$$

$$\log(dY) = 0,12, m_u = 0,85, dY_{90} = 0,53, A_{1n} = 1,0, A_{2u} = 0,044, c_x = 1,00$$

$$dY_{18} = 0,12, A_{1u} = 0,017, A_{2n} = 0,0058$$

$$dY_{3,6} = 0,05, Y_u = 18, dY_u = 0,12$$

application range

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