

$\log(\Delta Y)$

LABJNDu7

tristimulus value difference

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

ΔY

1-10

$$t^*_{LABJNDu7} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$t^*_{LABJNDu7} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

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

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

$$t^*_u = 593, dY_u = 0,10, dY_u/Y_u = 0,0056$$

$$\log(dY) = 0,10, \mu_{10} = 0,85, A_{1u} = 0,014, A_{2u} = 0,0048, c_x = 0,84$$

$$dY_{18} = 0,10, A_{1n} = 0,014, A_{2n} = 0,0048$$

$$dY_{3,6} = 0,02, t_u = 10, dY_u = 0,10$$

application range

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