

$\log(\Delta Y/\Delta Y_u)$

LABJNDu5 relative
tristimulus value difference

$Y_{nc}=Y_w$ RGBnc=100, 21, 72, 7

$\Delta Y/\Delta Y_u$

2 100

$$t^*_{LABJNDu5} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$t^*_{LABJNDu5} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

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

1 10

$$dY_{90}/dY_u = 4,43, A_{0n} = 1,5, A_{2u} = 0,1044, c_x = 1,00$$

$$dY_{18}/dY_u = 1,00, A_{1n} = 0,017, A_{2u} = 0,0058$$

$$dY_{3,6}/dY_u = 0,31, Y_u = 18, dY_u = 0,18$$

0 1

$$t^*_u = 332, dY_u = 0,18, dY_{18}/dY_u = 0,5101$$

$$\log[(dY)/(dY)_u] = 0, \quad t_u = 0,56$$

application
range

0,1

1

10

$x_u = 1$

100

y

-1

-1

0

$x_N = 0,2$

1

$x_W = 5$

2

$\log(Y)$