

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

LABJNDu1 relative
tristimulus value difference

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

$\Delta Y/\Delta Y_u$

2 100

$$l^*_{LABJNDu1} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$l^*_{LABJNDu1} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

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

1 10

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

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

$$dY_{3,6}/dY_u = 0,31, Y_u = 18, dY_u = 0,12$$

0 1

$$l^*_u = 498, dY_u = 0,12, dY_u/Y_u = 0,0067$$

$$\log[(dY)/(dY)_u] = 0, m_u = 0,86$$

application
range

-1 0,1 1 10 100 $l^*_u = 1$ $100 y$
-2 -1 0 $x_N = 0,2$ 1 $x_W = 5$ 2 $\log(Y)$