

$\log(Y/\Delta Y)$

LABJNDu7

tristimulus value contrast

$Y_{nc} = L^*_{wRGBnc} = 100, 52, 87, 31$

$C_r = (Y/\Delta Y)$

4  
10000

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

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

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

3  
1000

$$(Y/dY)_{90} = 131,72, A_{0n} = 1,5, A_{2u} = 0,0876, c_x = 0,84$$

$$(Y/dY)_{18} = 114,61, A_{1n} = 0,017, A_{2n} = 0,0048$$

$$(Y/dY)_{3,6} = 69,48, Y_u = 18, dY_u = 0,15$$

2  
100

$$T^*_u = 396, dY_u = 0,15, Y_u/dY_u = 114$$

$$\log(Y/dY) = 2,05, m_u = 0,15$$

application  
range

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