

log (Y/ΔY)

LABJND_{u0}

tristimulus value contrast

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

$C_r = (Y/\Delta Y)$

4 10000

$$I_{LABJNDu0}^* = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$I_{LABJNDu0}^* = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

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

3 1000

2 100

$$I_u^* = 332, dY_u = 0,18, Y_u/dY_u = 98$$

$$\log(Y/dY) = 1,99, m_u = 0,13$$

application
range

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