

$$\log [(\Delta Y/Y) / (\Delta Y/Y)_u]$$

CIELABu9 relative
tistimulus value sensitivity

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

$$S_r/S_{ru} = (\Delta Y/Y) / (\Delta Y/Y)_u$$

$$t^*_{CIELABu9} = 37 (Y/Y_u)^{1/1,5} + 13 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log[(dY/Y)/(dY/Y)_u] = - (1/1,5) \log(Y/Y_u)$$

2

100

1

10

$$(dY/Y)_{90}/(dY/Y)_u = 0,34, \gamma = 1,5, 1/\gamma = 1/1,5 = 0,66$$

$$(dY/Y)_{1,9}/(dY/Y)_u = 1,90, S_n = 36,98, D_n = 13,01$$

$$(dY/Y)_{3,6}/(dY/Y)_u = 2,51, Y_u = 18, dY_u = 4,05$$

application
range

0

1

$$\log[(dY/Y)/(dY/Y)_u] = 0, m_u = -0,66$$

$$t^*_u = 50, dY_u = 4,05, dY_u/Y_u = 0,2253$$

0,1

1

10

100

$Y_u = 18$

Y

-1

-1

0

1

2

$Y_N = 3,6$

$Y_W = 90$

$\log(Y)$