

$\log(\Delta Y)$

CIELABu7

tristimulus value difference

$Y_{nc}=Y_W \text{RGB}_{nc}=100, 21, 72, 7$

$\Delta Y$   
2  
100

$$t^*_{\text{CIELABu7}} = 59(Y/Y_u)^{1/2,5} - 9 \quad (Y_u=18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log(dY) = (1/2,5) \log[2,5(Y_u/58)] + [1-(1/2,5)] \log(Y)$$

1  
10

$$t^*_{u}=50, dY_u=4,27, dY_u/Y_u=0,2377$$

$$\log(dY)=4,27, m_u=0,59$$

0  
-1

$$dY_{90}=11,23, \gamma=2,5, 1/\gamma=1/2,5=0,40$$

$$dY_{18}=4,27, S_n=58, 12, D_n=-8,42$$

$$dY_{3,6}=1,62, Y_u=18, dY_u=4,27$$

application range

0,1

1

10

$Y_u=18$

100

$Y_W=90$

2

$\log(Y)$

-1

0

1

$Y_N=3,6$

1

2

$\log(Y)$