

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

CIE tristimulus value difference

$\Delta Y$  normalized to  $\Delta Y_u$

$\Delta Y / \Delta Y_u$

$$100L^* = 116 (Y/Y_n)^{1/3} - 16 \quad (Y_n=100, 1 \leq Y \leq 100) \quad [1d]$$

$$dY = (3/116) \cdot (Y/Y_n)^{2/3} \quad [2d]$$

$$dY = a \cdot (Y/Y_n)^{2/3} \quad [3d]$$

$$dY = b \cdot (Y/Y_u)^{2/3} \quad [4d]$$

$$10 \quad a = 0,557$$

$$b = 3,826 \quad [5d]$$

$$Y_u=18, dY_u=0,83, (dY/Y_u)=0,045$$

$$0 \quad \log[(dY)/(dY_u)]=0, m_u=0,66$$

0,489

-0,843

0,1

10

100

$Y_u=18 \quad 100 \quad Y$

application range

-1 -2 -1 0 1 2  $\log Y$