

$\log(\Delta Y/\Delta Y_u)$  CIE tristimulus value difference  
 $\Delta Y$  normalized to  $\Delta Y_u$   
**for LABJND and CIELAB**

$\Delta Y/\Delta Y_u$

$$L^* = 116 (Y/Y_n)^{1/3} - 16$$

relative tristimulus value difference according to CIELAB

10

$$\begin{aligned}\log dY &= \log [3(Y_n/116)] + (2/3) \log(Y/Y_n) \\ &= \log [3(Y_n^{1/3}/116)] + (2/3) \log Y\end{aligned}$$

0

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

$$\log[dY_u/dY_u]=0, m_u=0,66$$

-1

$$m_{u-}=0,85$$

0,1

$$Y_u=18 \quad 100 \quad Y$$

10

2

$\log Y$

$$m_{u+}=0,86$$

application range

range

range