

# $\Delta Y$ $\Delta Y_{\text{CIELAB}}$ tristimulus-value difference

$$L^* = 116 (Y/Y_n)^{1/3} - 16, \quad Y_n=100, Y_u=18, 1 \leq Y \leq 100 \quad [1c]$$

$$L^* = k_u (Y/Y_u)^{1/3} - 16, \quad k_u=116 [Y_u/Y_n]^{1/3} = 65,50 \quad [2c]$$

$$dY = (3/116) \cdot (Y/Y_n)^{2/3} = a \cdot (Y/Y_n)^{2/3} = b \cdot (Y/Y_u)^{2/3} \quad [3c]$$

$$a = 0,557 \quad b = 6,516 \quad [4c]$$

