

$\log \Delta Y$

CIELAB-
Normfarbwertdifferenz

$\log(\Delta Y)$ ΔY

2-100

$$L^*_{\text{CIELAB}} = s(Y/Y_u)^{1/3} - 16 \quad (s=66, Y_u=18, 1/255 < Y < 7)$$

CIELAB-Normfarbwertdifferenz

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

0-1

$$Y_u=18, dY_u=0,83, dY_u/Y_u=0,0454$$

$$\log(dY)=0,82, m_u=0,66$$

Anwendungs-
bereich

-2

-1

0

1 $Y_N=4$ 10

1

2 $Y_u=18$ 100

$\log(Y)$