

$\log \Delta Y$

CIELAB-

Normfarbwertdifferenz

$\log(\Delta Y)$

ΔY

2

100

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

CIELAB-Normfarbwertdifferenz

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

1

10

0

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

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

Anwendungs-
bereich

0,1

1

$Y_N=4$ 10

$Y_u=18$ 100

Y

-1

-2

-1

0

1

2

$\log(Y)$