

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

LABJNDu1 relative  
Normfarbwertdifferenz

$Y_{nc} = L^*_{WRGB} = 100, \textcolor{red}{52}, \textcolor{blue}{87}, \textcolor{green}{31}$

$\Delta Y/\Delta Y_u$

2  
100

$$L^*_{\text{LABJNDu1}} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$L^*_{\text{LABJNDu1}} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

$$dY/dY_u = (A_{1n} + A_{2u}x) / (A_{1n} + A_{2u})$$

1  
10

$$dY_{90}/dY_u = 4,43, A_{0n}=1,0, A_{2u}=0,1044, c_x=1,00$$

$$dY_{18}/dY_u = 1,00, A_{1n}=0,017, A_{2n}=0,0058$$

$$dY_{3,6}/dY_u = 0,31, Y_u=18, dY_u=0,12$$

0  
-1

$$L^*_{u} = 498, dY_u = 0,12, dY_u/Y_u = 0,0067$$

$$\log[(dY)/(dY)_u] = 0, m_u = 0,86$$

Anwendungsbereich

0,1

1

10

$x_u=1$

100  $y$

-2

-1

0

$x_N=0,2$

1

$x_W=5$

2

$\log(y)$