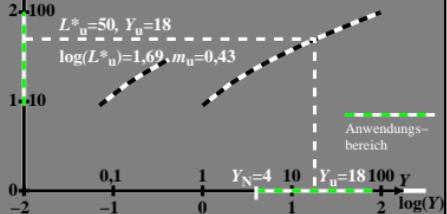


$\log(L^*)$ CIELAB-Helligkeit
mit $Y_u=90/5=18$, $Y_u=90/5=18$

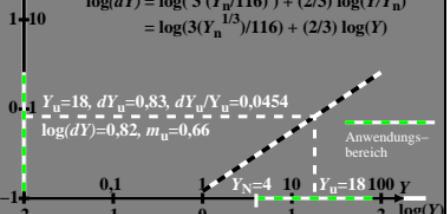
CIELAB-Helligkeit für alle Farben mit $L^*_u=50$:
 $L^*_{\text{CIELAB}} = s(Y/Y_u)^{1/3} - 16$ ($s=66$, $Y_u=18$, $1 < Y < 100$)
 $(s=66, Y_u=18, 1/255 < Y < 7)$



BGU90-1A

$\log \Delta Y$ CIELAB-Normfarbwertdifferenz
 $\log(\Delta Y)/\Delta Y$

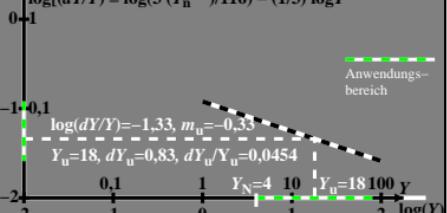
$L^*_{\text{CIELAB}} = s(Y/Y_u)^{1/3} - 16$ ($s=66, Y_u=18, 1 < Y < 100$)
CIELAB-Normfarbwertdifferenz
 $\log(\Delta Y) = \log(3(Y_u/116)) + (2/3)\log(Y/Y_u)$
 $= \log(3(Y_n^{1/3}/116)) + (2/3)\log(Y)$



BGU90-3A

$\log(\Delta Y/Y)$ CIELAB-Normfarbwertempfindlichkeit
 $\log(C_r) = \log(\Delta Y/Y)$

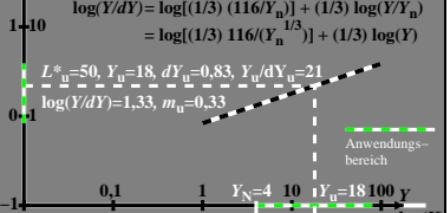
$L^*_{\text{CIELAB}} = s(Y/Y_u)^{1/3} - 16$ ($s=66, Y_u=18, 1/255 < Y < 7$)
CIELAB-Normfarbwertempfindlichkeit
 $\log((dY/Y)) = \log(3(Y_n^{1/3}/116)) - (1/3)\log(Y)$



BGU90-5A

$\log(Y/\Delta Y)$ CIELAB-Normfarbwertkontrast
 $\log(S_r) = \log(Y/\Delta Y)$

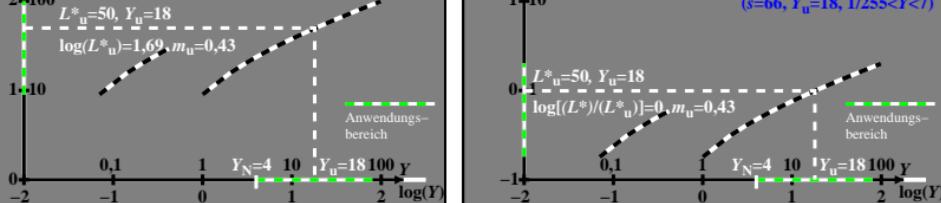
$L^*_{\text{CIELAB}} = s(Y/Y_u)^{1/3} - 16$ ($s=66, Y_u=18, 1/255 < Y < 7$)
CIELAB-Normfarbwertkontrast
 $\log(Y/dY) = \log[(1/3)(116/Y_u)] + (1/3)\log(Y/Y_u)$
 $= \log[(1/3)116(Y_n^{1/3})] + (1/3)\log(Y)$



BGU90-7A

$\log(L^*/L^*_{u_0})$ Relative CIELAB-Helligkeit
 $L^*/L^*_{u_0}$ mit $Y_u=90/5=18$, $Y_u=90/5=18$

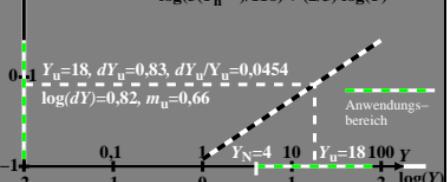
relative normierte CIELAB-Daten
CIELAB-Helligkeit für alle Farben mit $L^*_{u_0}=50$:
 $L^*_{\text{CIELAB}} = s(Y/Y_u)^{1/3} - 16$ ($s=66, Y_u=18, 1 < Y < 100$)
 $(s=66, Y_u=18, 1/255 < Y < 7)$



BGU90-2A

$\log(\Delta Y/\Delta Y_u)$ Relative CIELAB-Normfarbwertdifferenz
 $\Delta Y/\Delta Y_u$

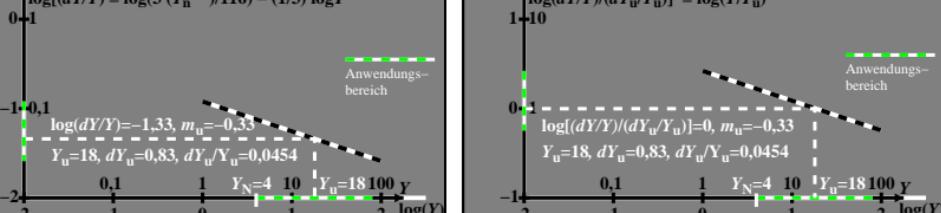
$L^*_{\text{CIELAB}} = s(Y/Y_u)^{1/3} - 16$ ($s=66, Y_u=18, 1 < Y < 100$)
Relative CIELAB-Normfarbwertdifferenz
 $\log(dY) = \log(3(Y_u/116)) + (2/3)\log(Y/Y_u)$
 $= \log(3(Y_n^{1/3}/116)) + (2/3)\log(Y)$



BGU90-4A

$\log[(\Delta Y/Y) / (\Delta Y_u/Y_u)]$ Relative CIELAB-Normfarbwertempfindlichkeit
 $C_r/C_{ru} = \log(\Delta Y/Y) / \log(\Delta Y_u/Y_u)$

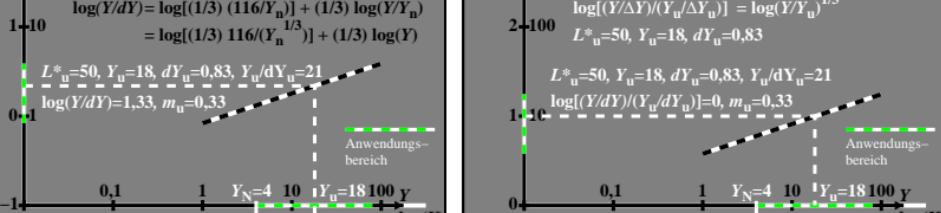
$L^*_{\text{CIELAB}} = s(Y/Y_u)^{1/3} - 16$ ($s=66, Y_u=18, 1/255 < Y < 7$)
Relative CIELAB-Normfarbwertempfindlichkeit
 $\log((dY/Y)/(dY_u/Y_u)) = \log(Y/Y_u)^{-1/3}$



BGU90-6A

$\log[(Y/\Delta Y) / (Y_u/\Delta Y_u)]$ Relativer CIELAB-Normfarbwertkontrast
 $\log(S_r) = \log[(Y/\Delta Y) / (Y_u/\Delta Y_u)]$

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



BGU90-8A