

### log(L\*) LABJND-Helligkeit

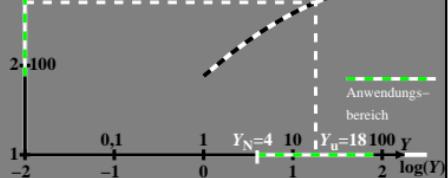
log(L\*)  $\Delta L^*$

$$L^*_{\text{LABJND}} = (A_0/A_2) \ln (A_1 + A_2 \cdot Y)$$

$$A_0=1,50 \quad A_1=0,0170 \quad A_2=0,0058$$

$$L^*_u=508, Y_u=18, dY_u=0.08, dY_u/Y_u=0.004$$

$$\log(L^*_u)=2.7, m_u=0.43$$



BGT41-1A

### log ΔY LABJND-Normfarbwertdifferenz

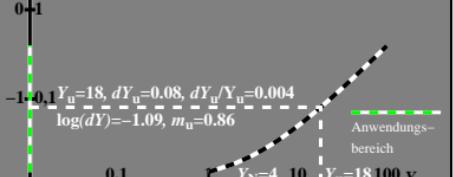
log(ΔY)  $\Delta Y$

$$L^*_{\text{LABJND}} = (A_0/A_2) \ln (A_1 + A_2 \cdot Y)$$

$$A_0=1,50 \quad A_1=0,0170 \quad A_2=0,0058$$

Normfarbwertdifferenz

$$\log(dY) = \log [(A_1 + A_2 \cdot Y) / A_0]$$



BGT41-3A

### log(ΔY/Y) LABJND-Normfarbwertempfindlichkeit

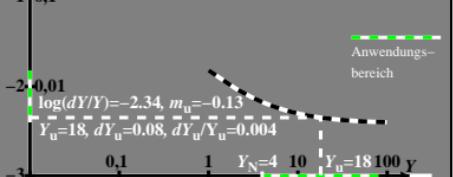
log(C<sub>r</sub>) C<sub>r</sub>=(ΔY/Y)

$$L^*_{\text{LABJND}} = (A_0/A_2) \ln (A_1 + A_2 \cdot Y)$$

$$A_0=1,50 \quad A_1=0,0170 \quad A_2=0,0058$$

LABJND-Hellbezugswertempfindlichkeit

$$\log(dY/Y) = \log [(A_1 + A_2 \cdot Y) / (A_0 \cdot Y)]$$



BGT41-5A

### log(Y/ΔY) LABJND-Normfarbwertkontrast

log(S<sub>r</sub>) S<sub>r</sub>=(Y/ΔY)

$$L^*_{\text{LABJND}} = (A_0/A_2) \ln (A_1 + A_2 \cdot Y)$$

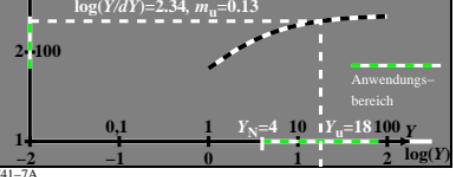
$$A_0=1,50 \quad A_1=0,0170 \quad A_2=0,0058$$

LABJND-Hellbezugswertkontrast

$$\log(Y/dY) = \log [(A_1 + A_2 \cdot Y) / (A_0 \cdot Y)]$$

$$Y_u=18, dY_u=0.08, Y_u/dY_u=222$$

$$\log(Y/dY)=2.34, m_u=0.13$$



BGT41-7A

### log(L\*/L\*\_u) Relative LABJND-Helligkeit

L\*/L\*\_u

$$L^*_{\text{LABJND}} = (A_0/A_2) \ln (A_1 + A_2 \cdot Y)$$

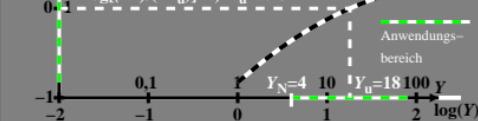
$$A_0=1,50 \quad A_1=0,0170 \quad A_2=0,0058$$

$$L^*/L^*_u = \ln (A_1 + A_2 \cdot Y) - \ln (A_1 + A_2 \cdot Y_u)$$

$$A_0=1,50 \quad A_1=0,0170 \quad A_2=0,0058$$

$$L^*_u=508, Y_u=18, dY_u=0.08, dY_u/Y_u=0.004$$

$$\log[(L^*)/(L^*_u)]=0, m_u=0.43$$



BGT41-2A

### log(ΔY/ΔY<sub>u</sub>) Relative LABJND-Normfarbwertdifferenz

ΔY/ΔY<sub>u</sub>

$$L^*_{\text{LABJND}} = (A_0/A_2) \ln (A_1 + A_2 \cdot Y)$$

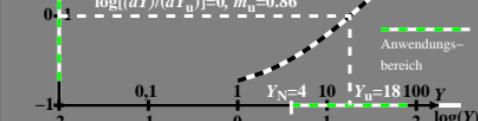
$$A_0=1,50 \quad A_1=0,0170 \quad A_2=0,0058$$

relative Normfarbwertdifferenz

$$\log(dY/dY_u) = \log (A_1 + A_2 \cdot Y) - \log (A_1 + A_2 \cdot Y_u)$$

$$Y_u=18, dY_u=0.08, dY_u/Y_u=0.004$$

$$\log[(dY)/(dY_u)]=0, m_u=0.86$$



BGT41-4A

### log [(ΔY/Y) / (ΔY<sub>u</sub>/Y<sub>u</sub>)] Relative LABJND-Normfarbwertempfindlichkeit

C<sub>r</sub>/C<sub>ru</sub>=(ΔY/Y)/(ΔY<sub>u</sub>/Y<sub>u</sub>)

$$L^*_{\text{LABJND}} = (A_0/A_2) \ln (A_1 + A_2 \cdot Y)$$

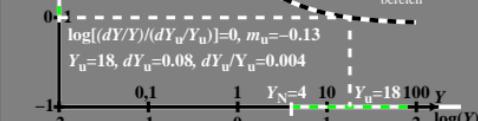
$$A_0=1,50 \quad A_1=0,0170 \quad A_2=0,0058$$

relative LABJND-Hellbezugswertempfindlichkeit

$$\log[(dY/Y)/(dY_u/Y_u)] = \log [(A_1 + A_2 \cdot Y) / Y] - \log [(A_1 + A_2 \cdot Y_u) / Y_u]$$

$$\log[(dY/Y)/(dY_u/Y_u)]=0, m_u=-0.13$$

$$Y_u=18, dY_u=0.08, dY_u/Y_u=0.004$$



BGT41-6A

### log [(Y/ΔY) / (Y<sub>u</sub>/ΔY<sub>u</sub>)] Relativer LABJND-Normfarbwertkontrast

S<sub>r</sub>/S<sub>ru</sub>=(Y/ΔY)/(Y<sub>u</sub>/ΔY<sub>u</sub>)

$$L^*_{\text{LABJND}} = (A_0/A_2) \ln (A_1 + A_2 \cdot Y)$$

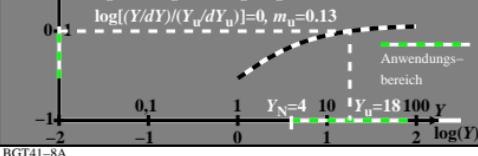
$$A_0=1,50 \quad A_1=0,0170 \quad A_2=0,0058$$

relativer LABJND-Hellbezugswertkontrast

$$\log[(Y/dY)/(Y_u/dY_u)] = \log [Y / (A_1 + A_2 \cdot Y)] - \log [Y_u / (A_1 + A_2 \cdot Y_u)]$$

$$Y_u=18, dY_u=0.08, Y_u/dY_u=222$$

$$\log[(Y/dY)/(Y_u/dY_u)]=0, m_u=0.13$$



BGT41-8A

BGT41-7N