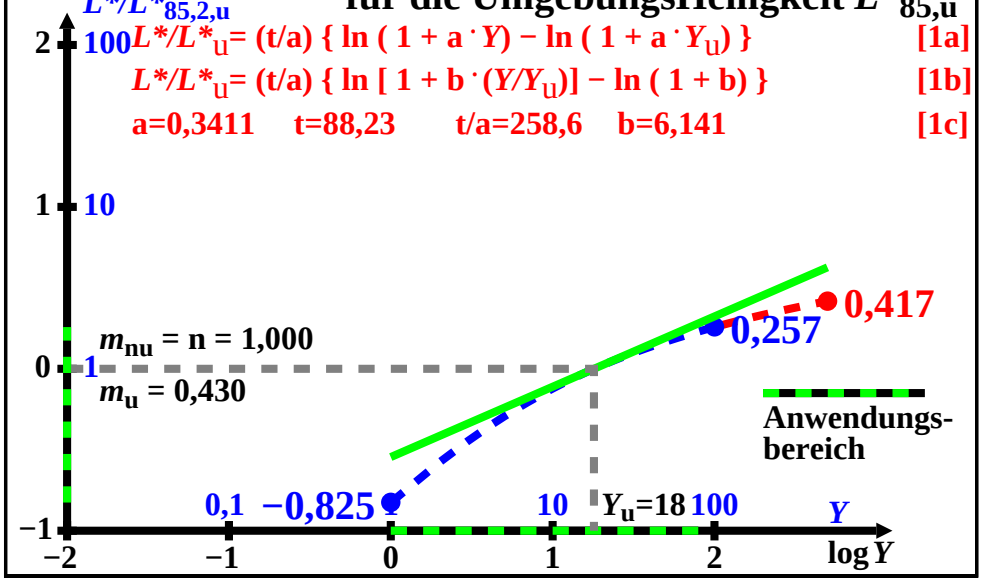
log ($L^*_{85}/L^*_{85,u}$) LABJND-Helligkeit L^*_{85} normiert für die UmgebungsHelligkeit $L^*_{85,u}$

$L^*/L^*_{85,2,u}$

L^*/L^*_{u}= (t/a) { ln (1 + a · Y) − ln (1 + a · Y_u) } [1a]

L^*/L^*_{u}= (t/a) { ln [1 + b · (Y/Y_u)] − ln (1 + b) } [1b]

a=0,3411 t=88,23 t/a=258,6 b=6,141 [1c]



hgt20−1a

log ($\Delta Y/\Delta Y_u$) LABJND-Normfarbwertdifferenz ΔY normiert für ΔY_u

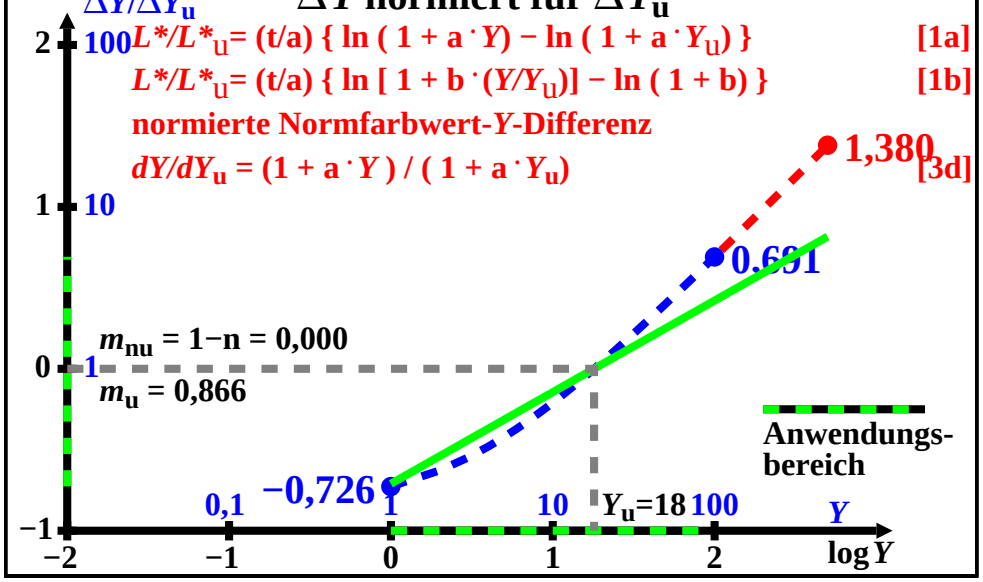
$\Delta Y/\Delta Y_u$

L^*/L^*_{u}= (t/a) { ln (1 + a · Y) − ln (1 + a · Y_u) } [1a]

L^*/L^*_{u}= (t/a) { ln [1 + b · (Y/Y_u)] − ln (1 + b) } [1b]

normierte Normfarbwert-Y-Differenz

dY/dY_u = (1 + a · Y) / (1 + a · Y_u) [3d]



hgt20−2a

log [($\Delta Y/Y$) / ($\Delta Y/Y$)$_u$] LABJND-Y-Empfindlichkeit normiert für ($\Delta Y/Y$)$_u$

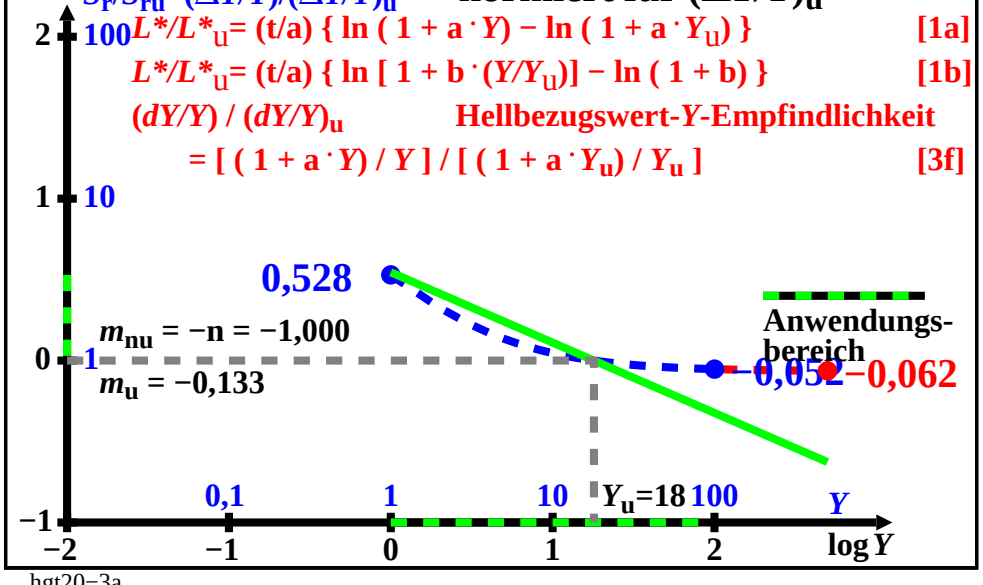
S_r/S_{ru}=($\Delta Y/Y$)/($\Delta Y/Y$)$_u$

L^*/L^*_{u}= (t/a) { ln (1 + a · Y) − ln (1 + a · Y_u) } [1a]

L^*/L^*_{u}= (t/a) { ln [1 + b · (Y/Y_u)] − ln (1 + b) } [1b]

(dY/Y) / (dY/Y)$_u$ Hellbezugswert-Y-Empfindlichkeit

= [(1 + a · Y) / Y] / [(1 + a · Y_u) / Y_u] [3f]



hgt20−3a

log[($Y/\Delta Y$) / ($Y/\Delta Y$)$_u$)] LABJND-Y-Kontrast normiert für ($Y/\Delta Y$)$_u$

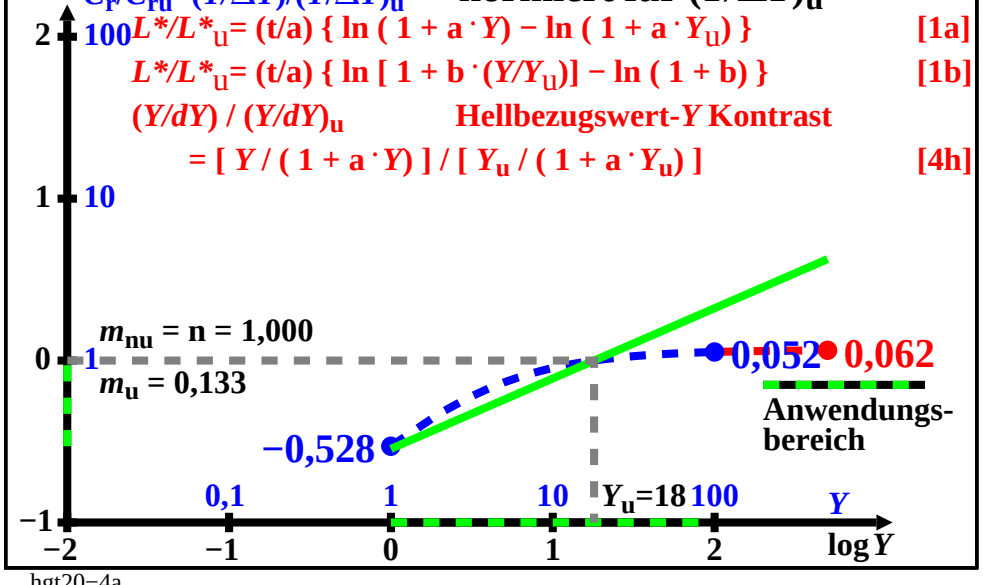
C_r/C_{ru}=($Y/\Delta Y$)/($Y/\Delta Y$)$_u$

L^*/L^*_{u}= (t/a) { ln (1 + a · Y) − ln (1 + a · Y_u) } [1a]

L^*/L^*_{u}= (t/a) { ln [1 + b · (Y/Y_u)] − ln (1 + b) } [1b]

(Y/dY) / (Y/dY)$_u$ Hellbezugswert-Y Kontrast

= [Y / (1 + a · Y)] / [Y_u / (1 + a · Y_u)] [4h]



hgt20−4a

hgt20−3n