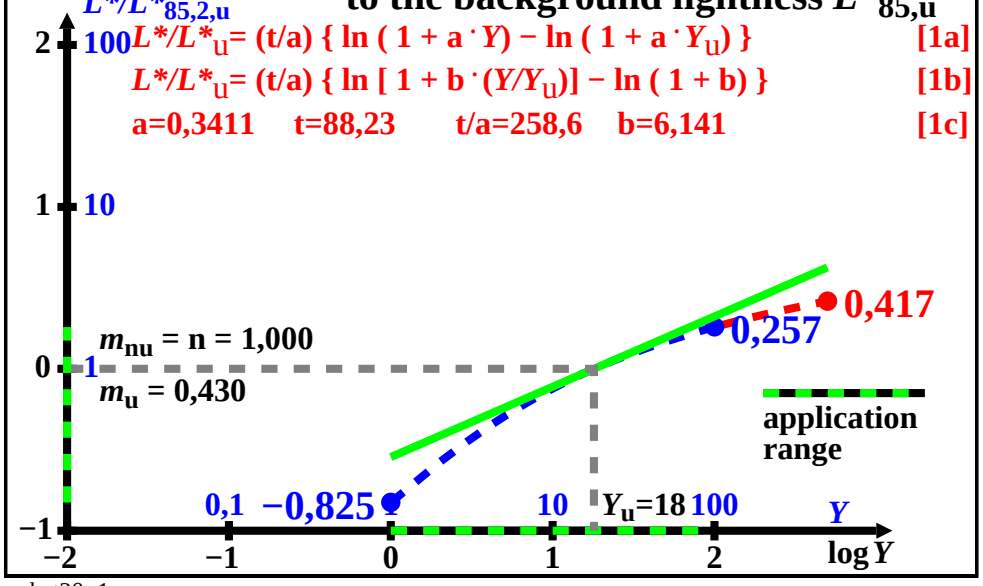
log ($L^*_{85}/L^*_{85,u}$) — LABJND lightness L^*_{85} normalized to the background lightness $L^*_{85,u}$



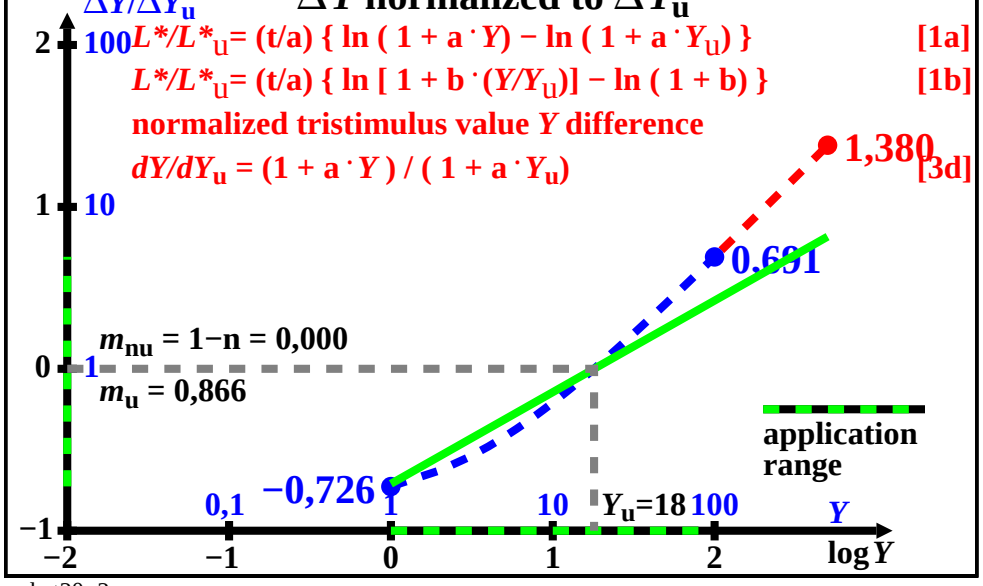
$L^*/L^*_u = (t/a)\ \{ \ln (1 + a \cdot Y) - \ln (1 + a \cdot Y_u) \}$ [1a]

$L^*/L^*_u = (t/a)\ \{ \ln [1 + b \cdot (Y/Y_u)] - \ln (1 + b) \}$ [1b]

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

het20−1a

log ($\Delta Y/\Delta Y_u$) — LABJND tristimulus value difference ΔY normalized to ΔY_u



$L^*/L^*_u = (t/a)\ \{ \ln (1 + a \cdot Y) - \ln (1 + a \cdot Y_u) \}$ [1a]

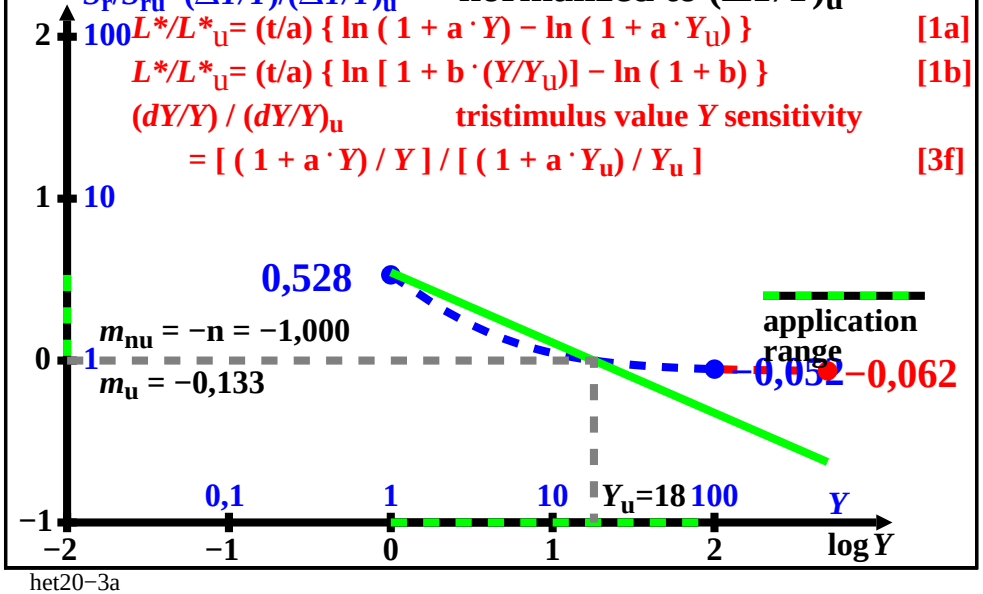
$L^*/L^*_u = (t/a)\ \{ \ln [1 + b \cdot (Y/Y_u)] - \ln (1 + b) \}$ [1b]

normalized tristimulus value Y difference

$dY/dY_u = (1 + a \cdot Y) / (1 + a \cdot Y_u)$ [3d]

het20−2a

log [$(\Delta Y/Y) / (\Delta Y/Y)_u$] — LABJND-$Y$ sensitivity normalized to $(\Delta Y/Y)_u$



$L^*/L^*_u = (t/a)\ \{ \ln (1 + a \cdot Y) - \ln (1 + a \cdot Y_u) \}$ [1a]

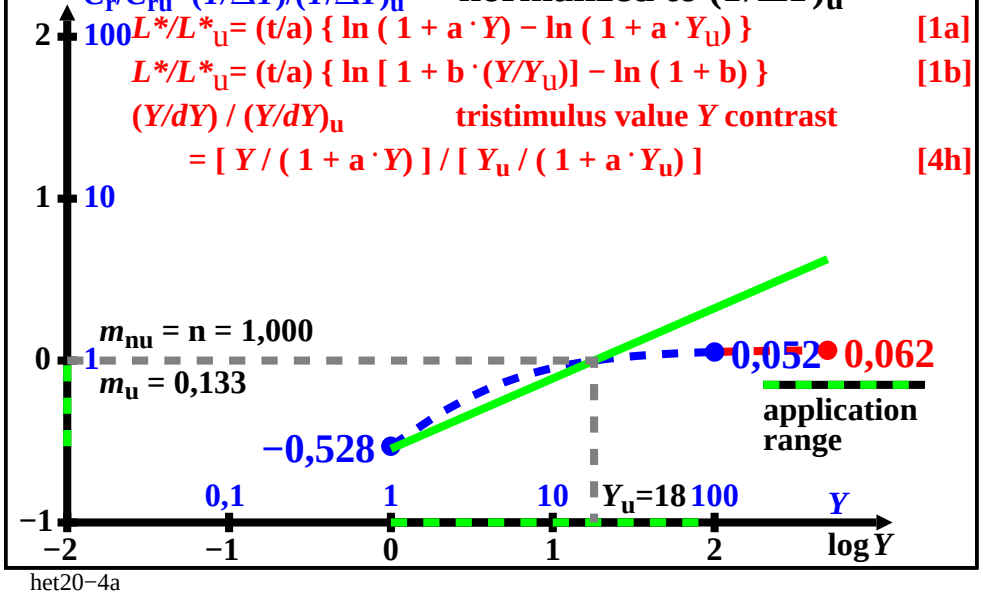
$L^*/L^*_u = (t/a)\ \{ \ln [1 + b \cdot (Y/Y_u)] - \ln (1 + b) \}$ [1b]

$(dY/Y) / (dY/Y)_u$ tristimulus value Y sensitivity

$= [(1 + a \cdot Y) / Y] / [(1 + a \cdot Y_u) / Y_u]$ [3f]

het20−3a

log[$(Y/\Delta Y) / (Y/\Delta Y)_u$)] — LABJND-$Y$ contrast normalized to $(Y/\Delta Y)_u$



$L^*/L^*_u = (t/a)\ \{ \ln (1 + a \cdot Y) - \ln (1 + a \cdot Y_u) \}$ [1a]

$L^*/L^*_u = (t/a)\ \{ \ln [1 + b \cdot (Y/Y_u)] - \ln (1 + b) \}$ [1b]

$(Y/dY) / (Y/dY)_u$ tristimulus value Y contrast

$= [Y / (1 + a \cdot Y)] / [Y_u / (1 + a \cdot Y_u)]$ [4h]

het20−4a

het20−3n