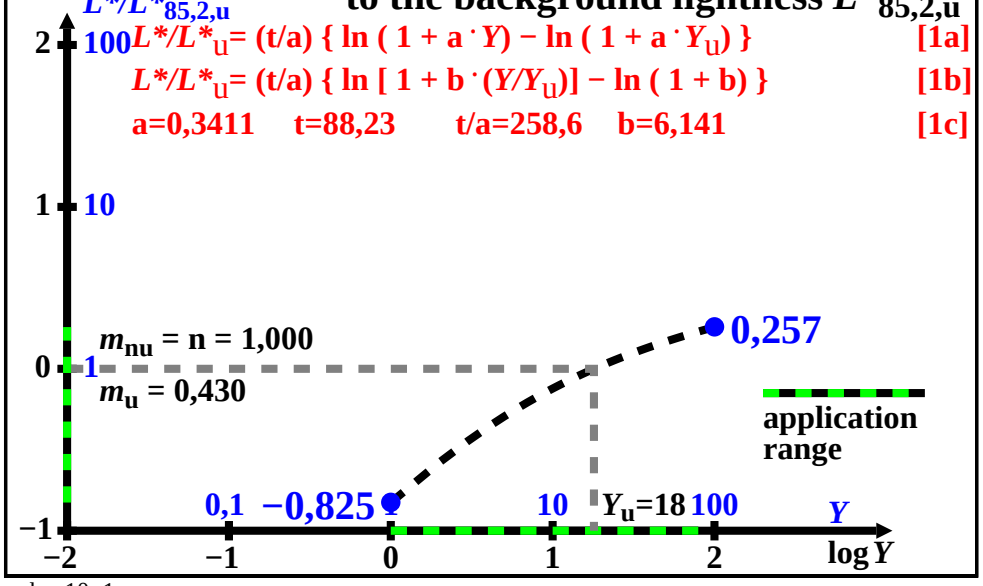
log ($L^*_{85,2}/L^*_{85,2,u}$) LABJND lightness $L^*_{85,2}$ normalized to the background lightness $L^*_{85,2,u}$

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

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



heo10−1a

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

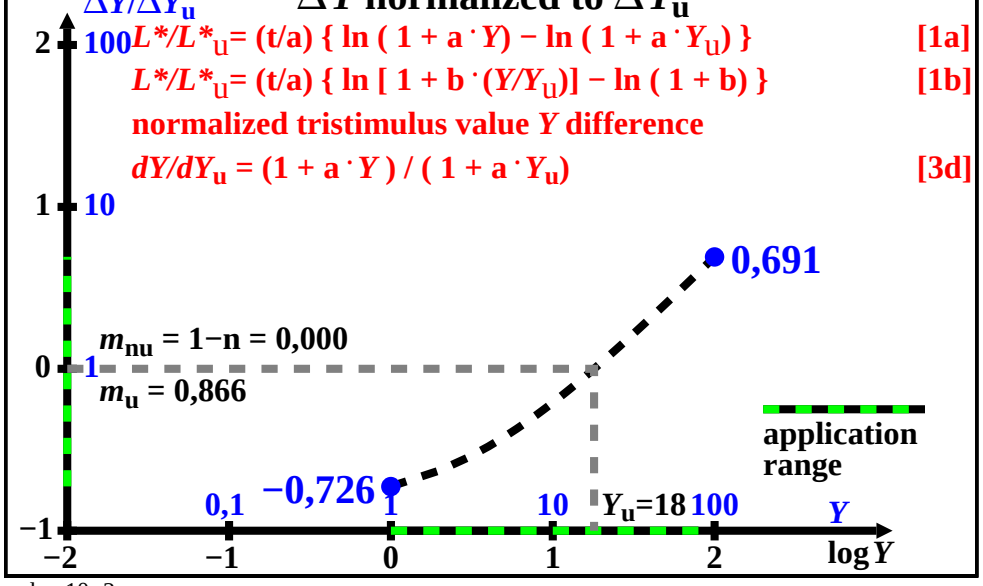
$\Delta Y/\Delta Y_u$

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

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

normalized tristimulus value Y difference

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



heo10−2a

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

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

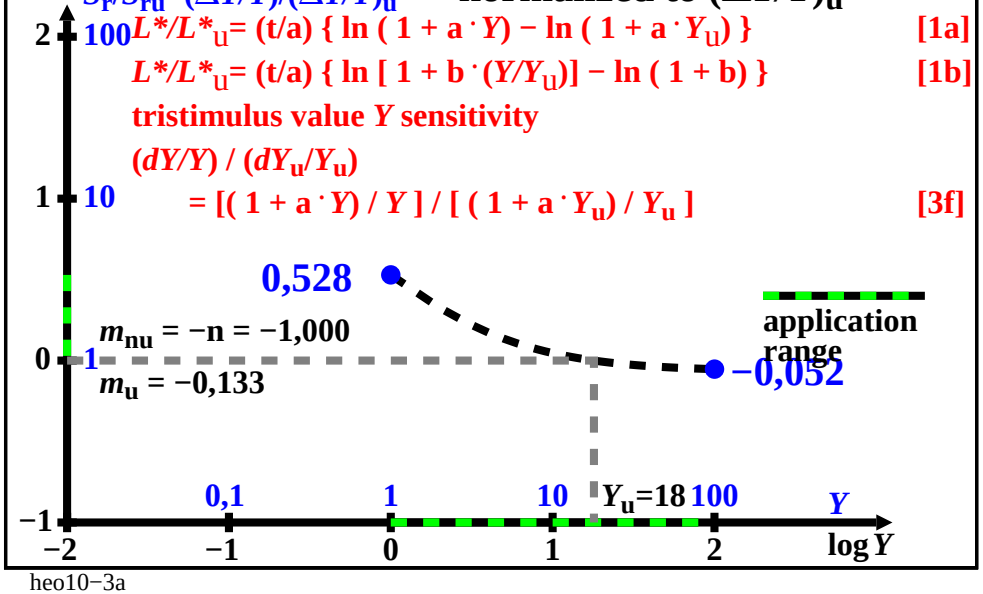
$L^*/L^*_u = (t/a)\{\ln(1 + a\cdot Y) - \ln(1 + a\cdot Y_u)\}$ [1a]

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

tristimulus value Y sensitivity

$(dY/Y)/(dY_u/Y_u)$

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



heo10−3a

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

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

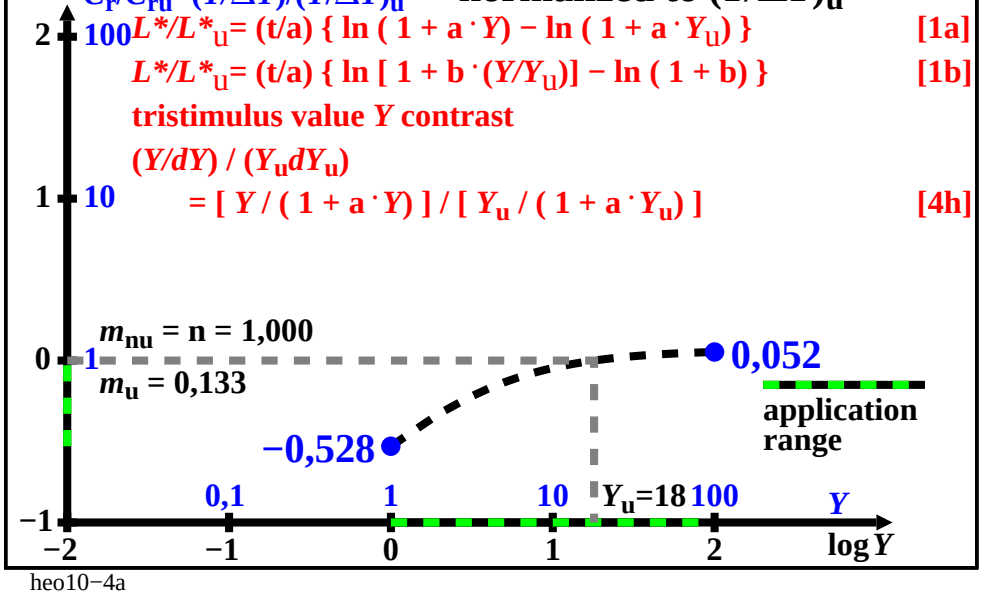
$L^*/L^*_u = (t/a)\{\ln(1 + a\cdot Y) - \ln(1 + a\cdot Y_u)\}$ [1a]

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

tristimulus value Y contrast

$(Y/dY)/(Y_u dY_u)$

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



heo10−4a

heo10−3n