HAULAB-Y contrast normalized to $(Y/\Delta Y)_u$

$\log[(Y/\Delta Y)/(Y/\Delta Y)_u)]$

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

$L^* = s\,(Y/Y_n)^n - d$ (Y_n=100, Y_u=11, s=134,6, n=0,31, d=19,2) [1a]

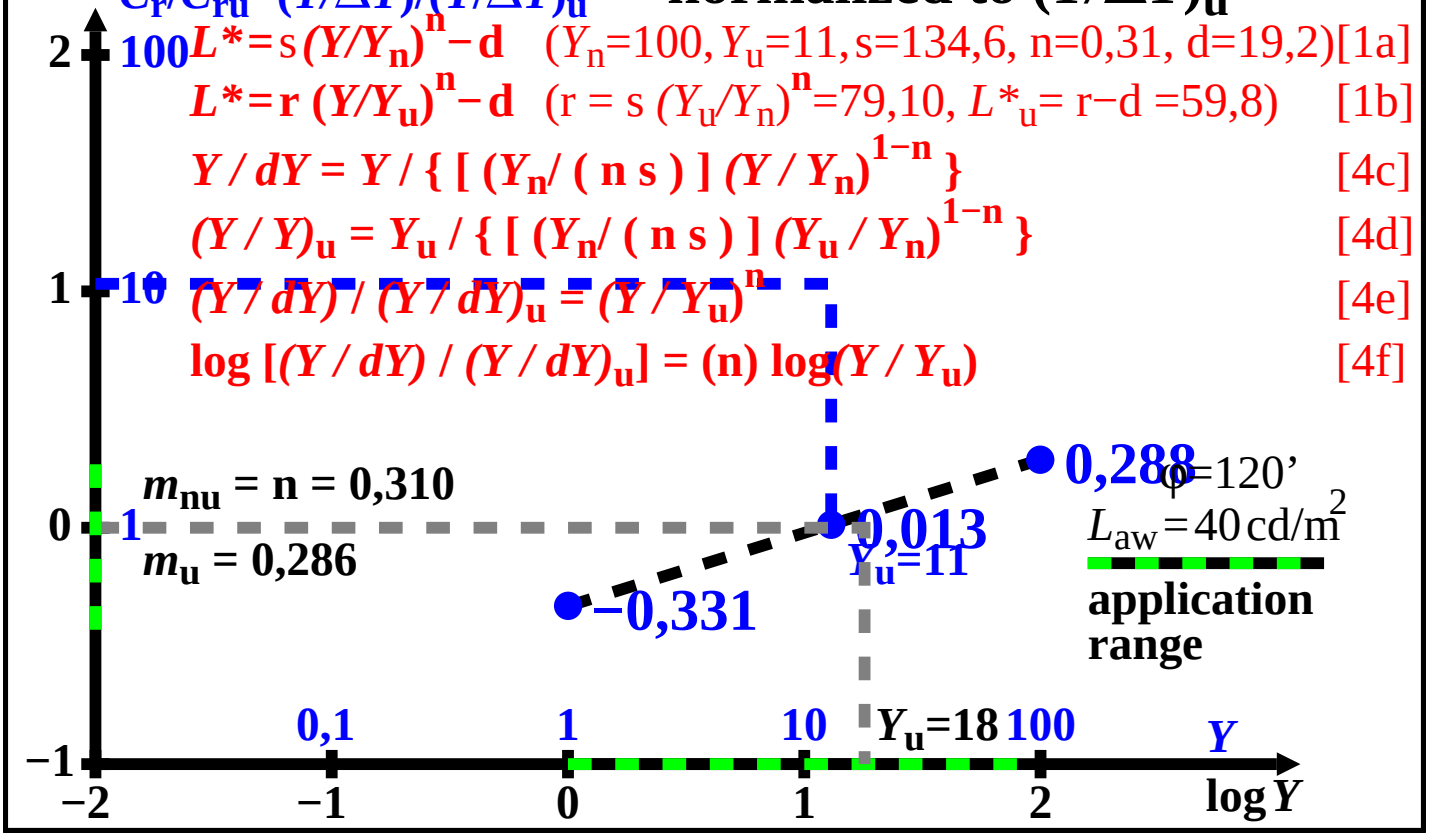
$L^* = r\,(Y/Y_u)^n - d$ (r = s $(Y_u/Y_n)^n$=79,10, L^*_u= r−d =59,8) [1b]

$Y / dY = Y / \{ [(Y_n/ (n\ s)] (Y / Y_n)^{1-n} \}$ [4c]

$(Y / Y)_u = Y_u / \{ [(Y_n/ (n\ s)] (Y_u / Y_n)^{1-n} \}$ [4d]

$(Y / dY) / (Y / dY)_u = (Y / Y_u)^n$ [4e]

$\log [(Y / dY) / (Y / dY)_u] = (n) \log (Y / Y_u)$ [4f]



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