IECsRGB-Helligkeit L^* normiert für die UmgebungsHelligkeit L^*_u

$$L^* = s\,(Y/Y_n)^n - d \quad (Y_n=100,\ Y_u=18,\ s=100,\ n=1/2{,}4,\ d=0) \qquad [1a]$$

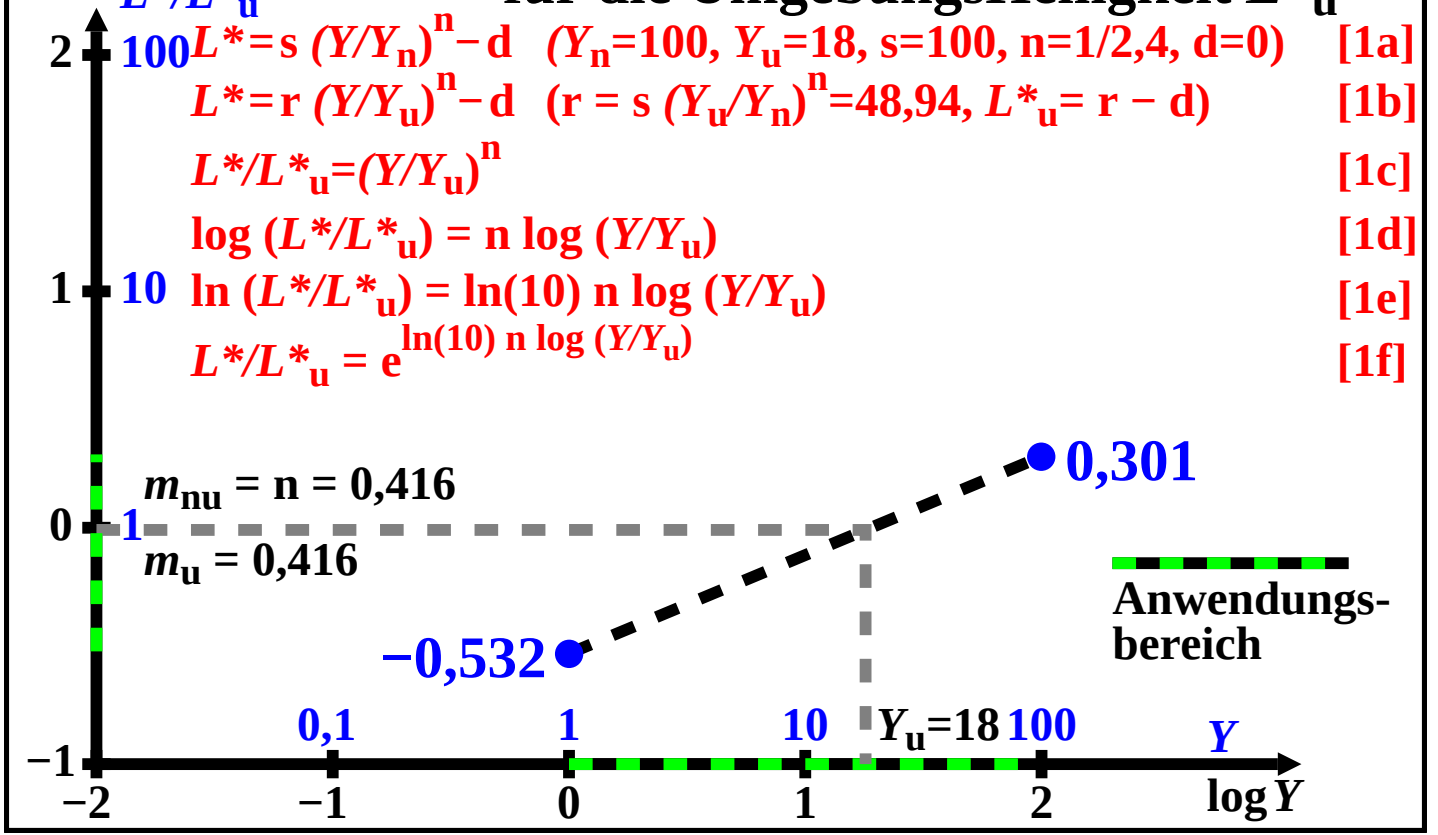
$$L^* = r\,(Y/Y_u)^n - d \quad (r = s\,(Y_u/Y_n)^n = 48{,}94,\ L^*_u = r - d) \qquad [1b]$$

$$L^*/L^*_u = (Y/Y_u)^n \qquad [1c]$$

$$\log(L^*/L^*_u) = n \log(Y/Y_u) \qquad [1d]$$

$$\ln(L^*/L^*_u) = \ln(10)\, n \log(Y/Y_u) \qquad [1e]$$

$$L^*/L^*_u = e^{\ln(10)\, n \log(Y/Y_u)} \qquad [1f]$$



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