

$\log(L^*_{80}/L^*_{80,u})$ HAULAB lightness L^*_{80} normalized
 $L^*/L^*_{80,u}$ to the background lightness $L^*_{80,u}$

$$2 \uparrow \quad 100 L^* = s(Y/Y_u)^n - d \quad (Y_u=100, Y_u=37, s=134,6, n=0,31, d=49,5) \quad [1a]$$

$$L^* = r(Y/Y_u)^n - d \quad (r = s(Y_u/Y_u)^n = 79,10, L^*_{u} = r-d = 29,5) \quad [1b]$$

$$L^*/L^*_{u} = g(Y/Y_u)^n - h \quad (g=r/(r-d)=2,67, h=d/(r-d)=1,67) \quad [1c]$$

$$\log [(L^*/L^*_{u} + h) / g] = n \log (Y/Y_u) = 0,31 \log (Y/37) \quad [1d]$$

$$10 \ln [(L^*/L^*_{u} + h) / g] = n \ln(10) \log (Y/Y_u) = 0,71 \log (Y/37) \quad [1e]$$

$$(L^*/L^*_{u} + h) / g = e^{n \ln(10) \log (Y/Y_u)} = e^{0,71 \log (Y/37)} \quad [1f]$$

