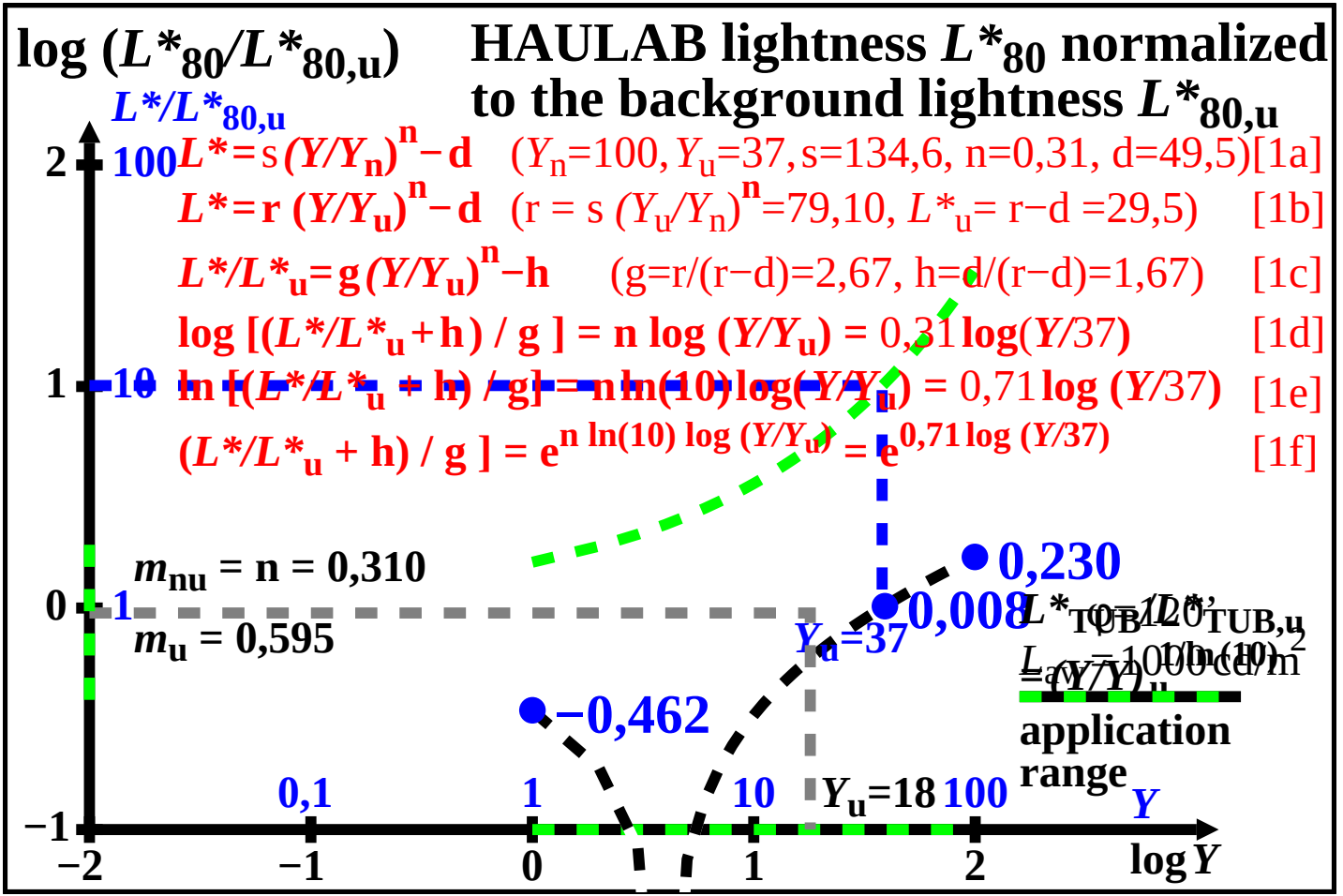
log (L*80/L*80,u)
HAULAB lightness L*80 normalized to the background lightness L*80,u
L*/L*80,u
L* = s (Y/Yn)^n − d (Yn=100, Yu=37, s=134,6, n=0,31, d=49,5) [1a]
L* = r (Y/Yu)^n − d (r = s (Yu/Yn)^n =79,10, L*u = r−d =29,5) [1b]
L*/L*u = g (Y/Yu)^n − h (g=r/(r−d)=2,67, h=d/(r−d)=1,67) [1c]
log [(L*/L*u + h) / g ] = n log (Y/Yu) = 0,31 log(Y/37) [1d]
ln [(L*/L*u + h) / g] = n ln(10) log(Y/Yu) = 0,71 log (Y/37) [1e]
(L*/L*u + h) / g ] = e^(n ln(10) log (Y/Yu)) = e^(0,71 log (Y/37)) [1f]
100
10
1
2
1
0
−1
mnu = n = 0,310
mu = 0,595
0,230
0,008
−0,462
Yu=37
L*TUB=20
LTUB=100 cd/m2
application range
0,1
1
10
Yu=18
100
Y
log Y
−2
−1
0
1
2

heo90−2a