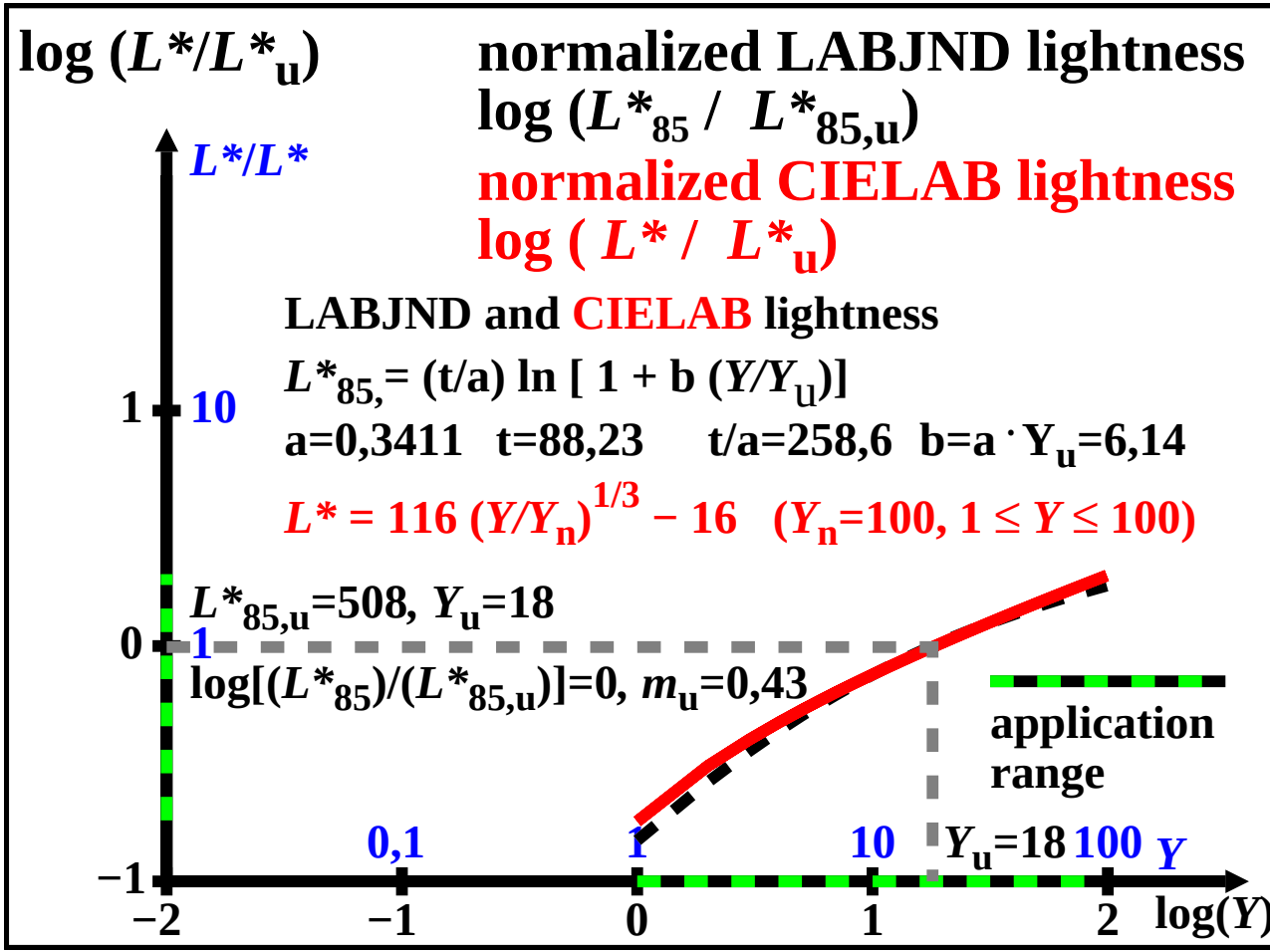
log (L*/L*u)
normalized LABJND lightness
log (L*85 / L*85,u)
normalized CIELAB lightness
log (L* / L*u)
L*/L*
LABJND and CIELAB lightness
L*85,= (t/a) ln [1 + b (Y/Yu)]
a=0,3411 t=88,23 t/a=258,6 b=a · Yu=6,14
L* = 116 (Y/Yn)1/3 − 16 (Yn=100, 1 ≤ Y ≤ 100)
1
10
L*85,u=508, Yu=18
0
1
log[(L*85)/(L*85,u)]=0, mu=0,43
application range
0,1
1
10
Yu=18
100
Y
−1
−2
−1
0
1
2
log(Y)