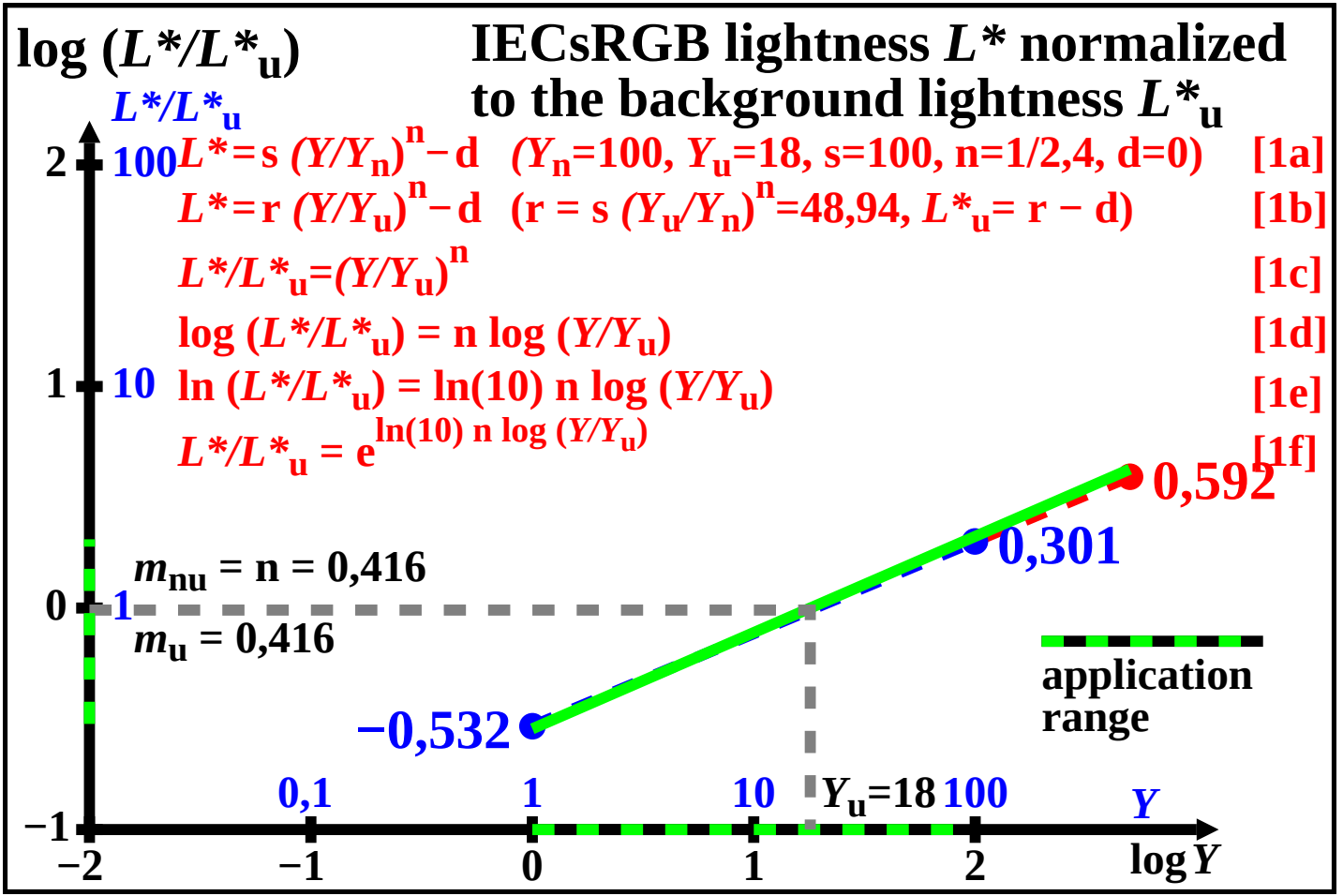
log (L*/L*u)
IECsRGB lightness L* normalized to the background lightness L*u
L*/L*u
L*=s (Y/Yn)^n − d (Yn=100, Yu=18, s=100, n=1/2,4, d=0) [1a]
L*=r (Y/Yu)^n − d (r = s (Yu/Yn)^n=48,94, L*u= r − d) [1b]
L*/L*u=(Y/Yu)^n [1c]
log (L*/L*u) = n log (Y/Yu) [1d]
ln (L*/L*u) = ln(10) n log (Y/Yu) [1e]
L*/L*u = e^ln(10) n log (Y/Yu) [1f]
2
100
1
10
0
1
−1
mnu = n = 0,416
mu = 0,416
0,592
0,301
−0,532
application range
0,1
1
10
Yu=18
100
Y
−2
−1
0
1
2
log Y

het30−5a