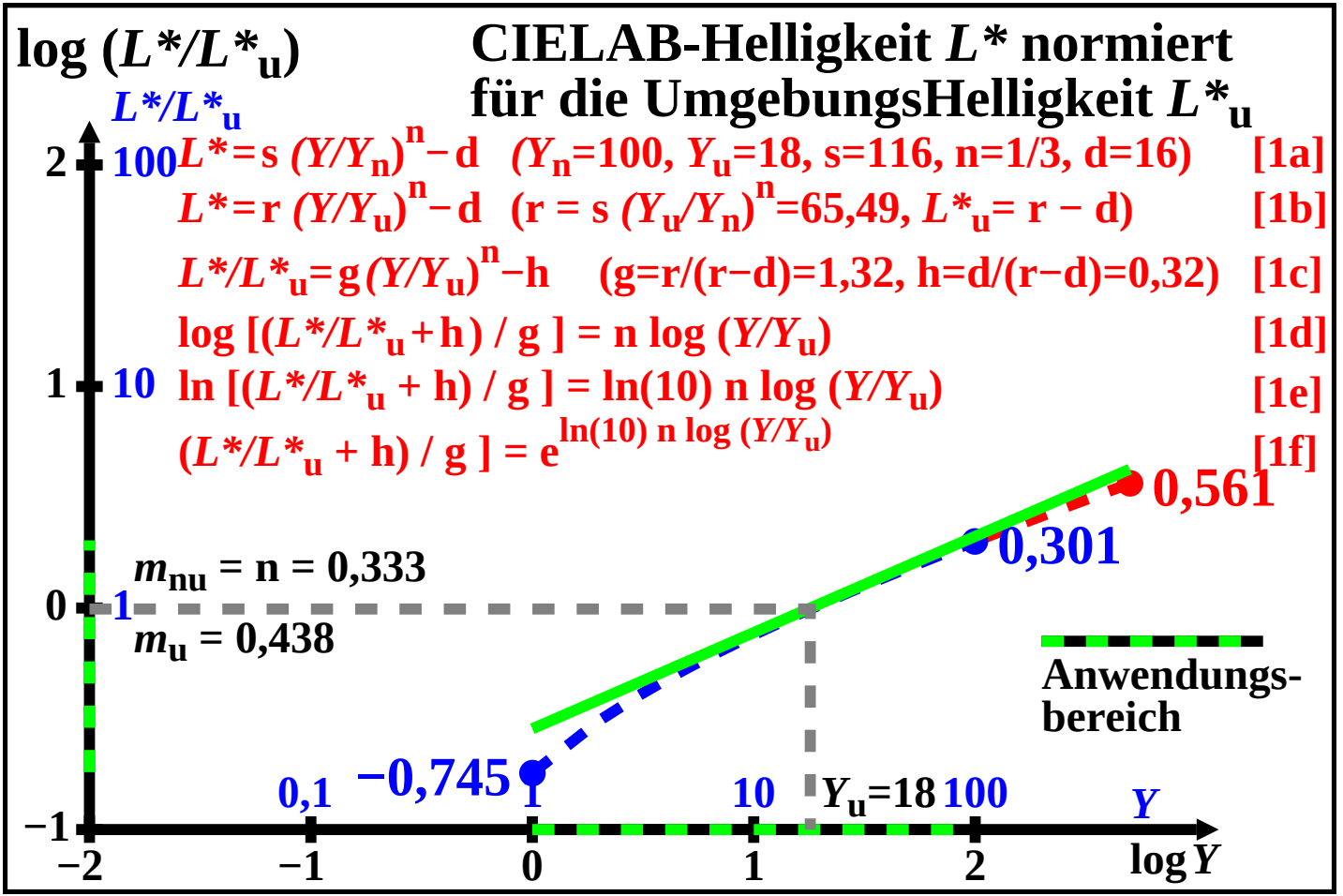
log (L*/L*u)
CIELAB-Helligkeit L* normiert
für die UmgebungsHelligkeit L*u
L*/L*u
2
100
1
10
0
1
−1
m_nu = n = 0,333
m_u = 0,438
L*=s (Y/Yn)^n−d (Yn=100, Yu=18, s=116, n=1/3, d=16) [1a]
L*=r (Y/Yu)^n−d (r = s (Yu/Yn)^n=65,49, L*u= r − d) [1b]
L*/L*u=g(Y/Yu)^n−h (g=r/(r−d)=1,32, h=d/(r−d)=0,32) [1c]
log [(L*/L*u+h) / g ] = n log (Y/Yu) [1d]
ln [(L*/L*u + h) / g ] = ln(10) n log (Y/Yu) [1e]
(L*/L*u + h) / g ] = e^ln(10) n log (Y/Yu) [1f]
0,561
0,301
−0,745
Anwendungs-
bereich
0,1
1
10
Yu=18
100
Y
−2
−1
0
1
2
log Y

hgt00−5a