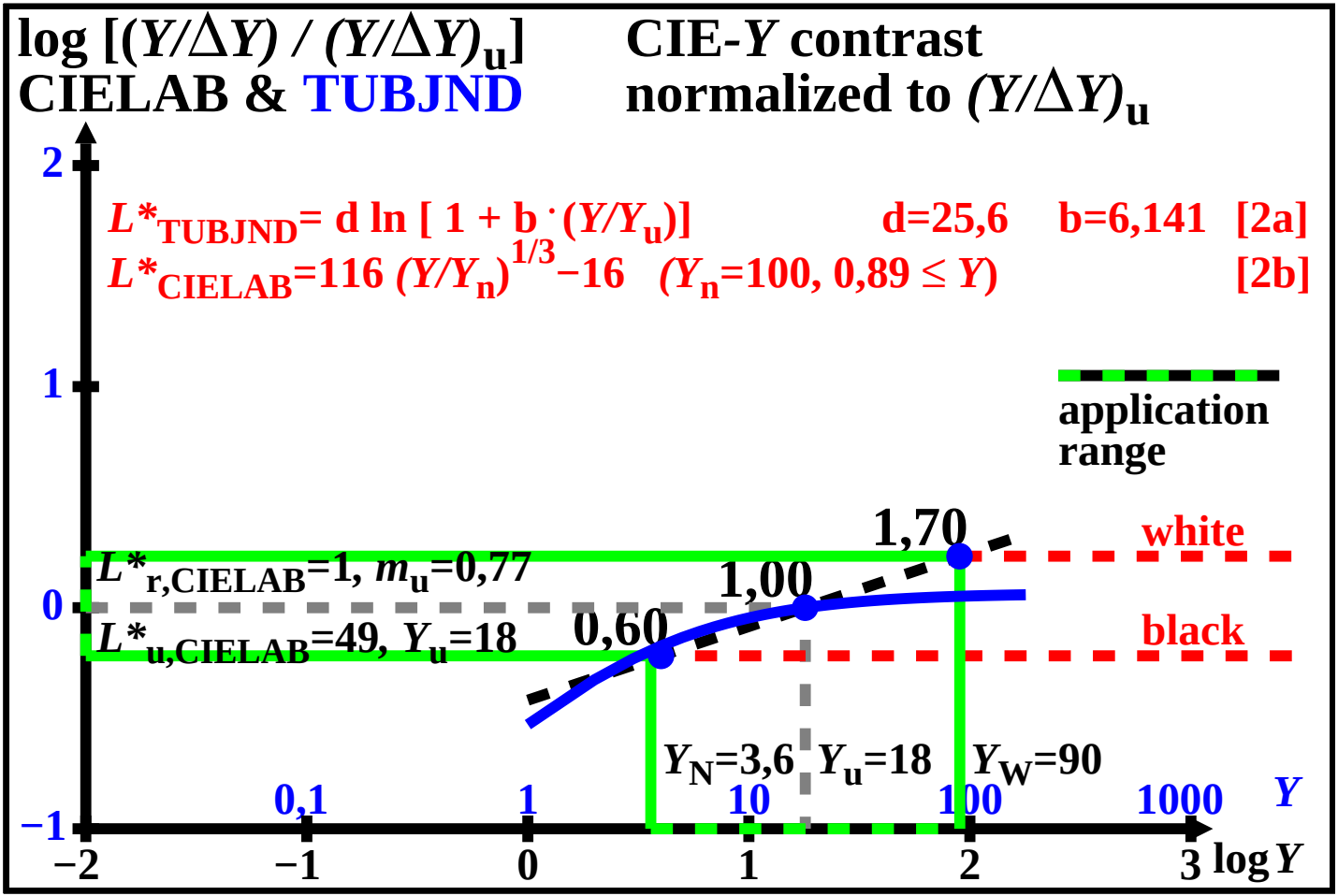
log [(Y/ΔY) / (Y/ΔY)u]
CIELAB & TUBJND
CIE-Y contrast
normalized to (Y/ΔY)u
L*TUBJND= d ln [1 + b·(Y/Yu)]
d=25,6
b=6,141
[2a]
L*CIELAB=116 (Y/Yn)1/3−16
(Yn=100, 0,89 ≤ Y)
[2b]
application
range
white
black
1,70
1,00
0,60
L*r,CIELAB=1, mu=0,77
L*u,CIELAB=49, Yu=18
YN=3,6
Yu=18
YW=90
2
1
0
−1
0,1
1
10
100
1000
Y
−2
−1
0
1
2
3
log Y

eee81−1a