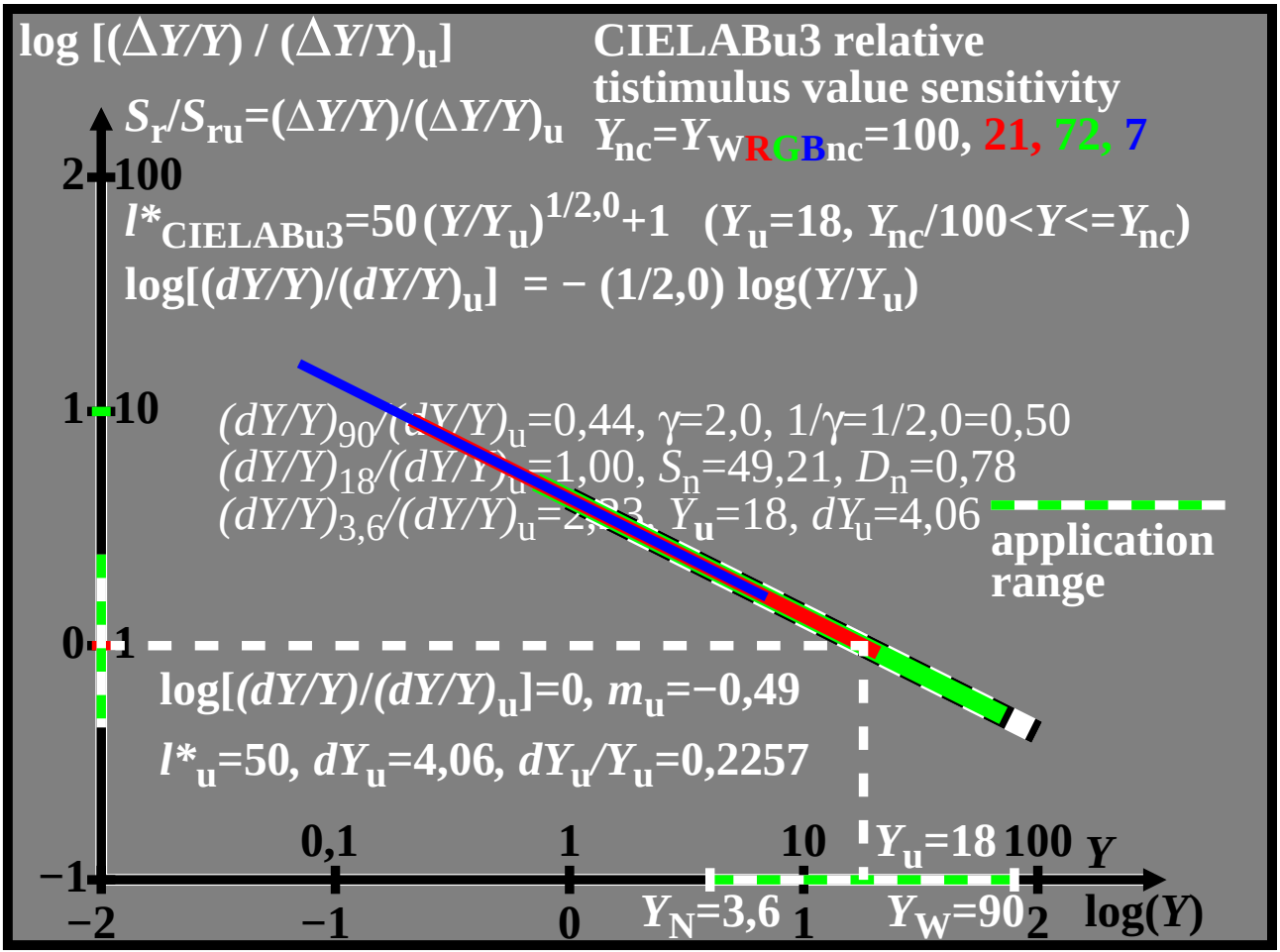
log [(ΔY/Y) / (ΔY/Y)u]
CIELABu3 relative tistimulus value sensitivity
Ync=YWRGBnc=100, 21, 72, 7
Sr/Sru=(ΔY/Y)/(ΔY/Y)u
2
100
l*CIELABu3=50 (Y/Yu)1/2,0+1 (Yu=18, Ync/100<Y<=Ync)
log[(dY/Y)/(dY/Y)u] = − (1/2,0) log(Y/Yu)
1
10
(dY/Y)90/(dY/Y)u=0,44, γ=2,0, 1/γ=1/2,0=0,50
(dY/Y)18/(dY/Y)u=1,00, Sn=49,21, Dn=0,78
(dY/Y)3,6/(dY/Y)u=2,23, Yu=18, dYu=4,06
application range
0
1
log[(dY/Y)/(dY/Y)u]=0, mu=−0,49
l*u=50, dYu=4,06, dYu/Yu=0,2257
0,1
1
10
Yu=18
100
Y
−1
−2
−1
0
YN=3,6
1
YW=90
2
log(Y)

BEX30−6A