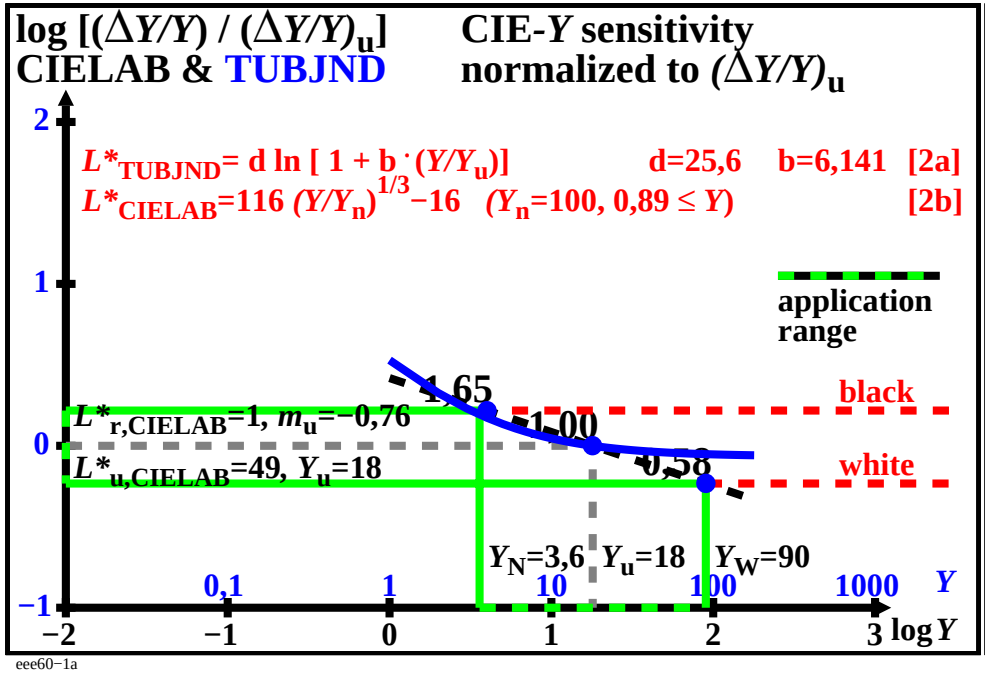
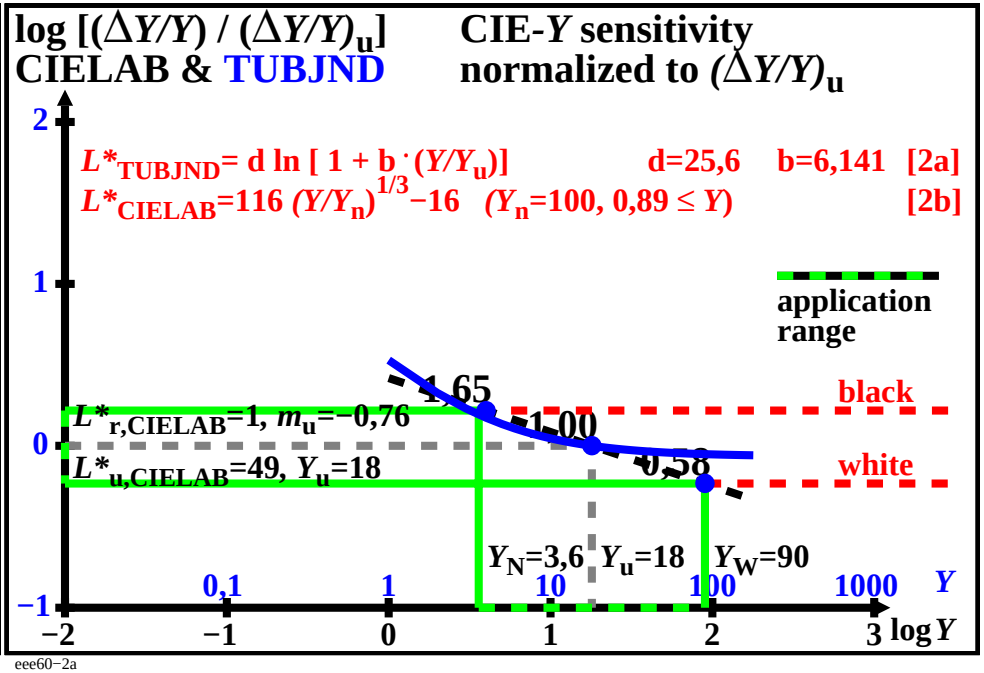

log [(ΔY/Y) / (ΔY/Y)u]
CIELAB & TUBJND
CIE-Y sensitivity
normalized to (ΔY/Y)u
L*TUBJND= d ln [1 + b·(Y/Yu)]
d=25,6
b=6,141
[2a]
L*CIELAB=116 (Y/Yn)1/3−16
(Yn=100, 0,89 ≤ Y)
[2b]
application
range
black
white
L*r,CIELAB=1, mu=−0,76
L*u,CIELAB=49, Yu=18
1,65
1,00
0,58
YN=3,6
Yu=18
YW=90
0,1
1
10
100
1000
Y
log Y
2
1
0
−1
−2
−1
0
1
2
3
eee60−1a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1,00
0,58
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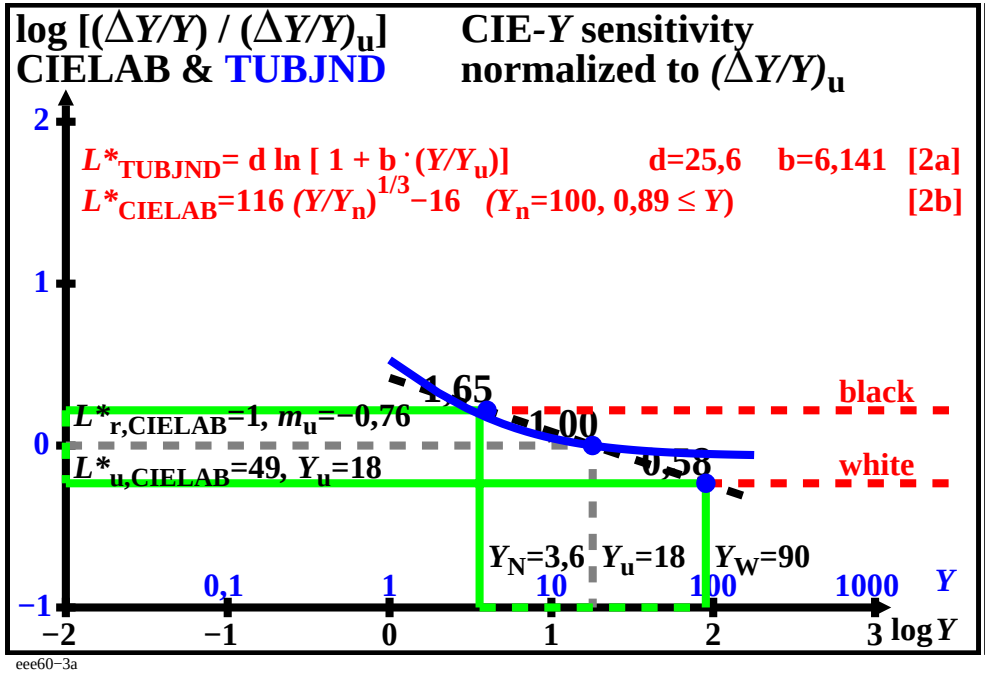
Yu=18
YW=90
0,1
1
10
100
1000
Y
log Y
2
1
0
−1
−2
−1
0
1
2
3
eee60−2a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0,58
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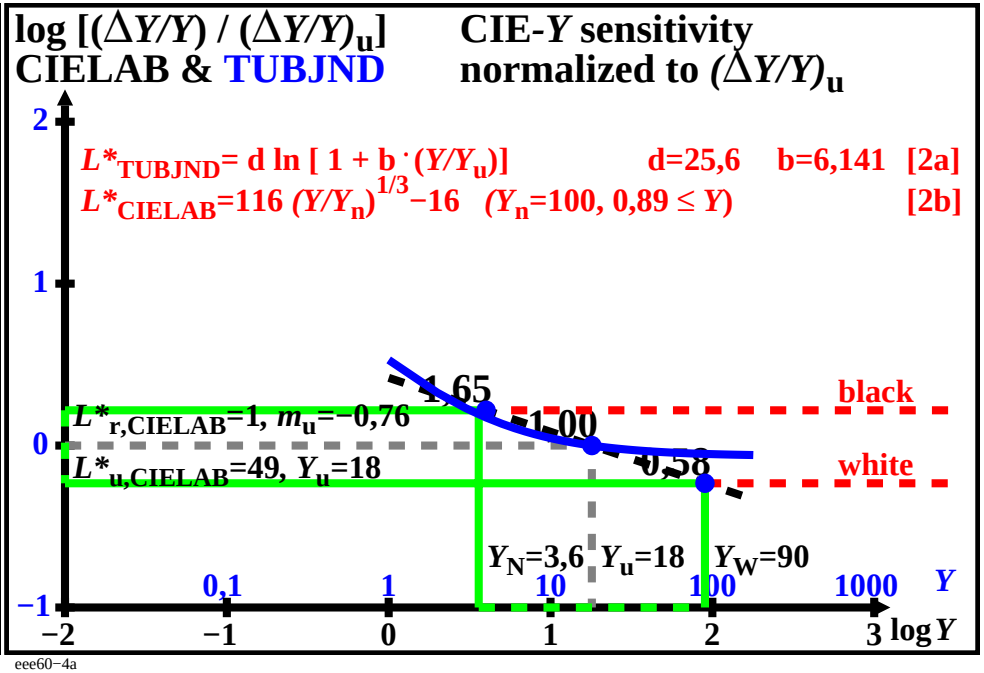
Yu=18
YW=90
0,1
1
10
100
1000
Y
log Y
2
1
0
−1
−2
−1
0
1
2
3
eee60−3a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Yu=18
YW=90
0,1
1
10
100
1000
Y
log Y
2
1
0
−1
−2
−1
0
1
2
3
eee60−4a

eee60−3n