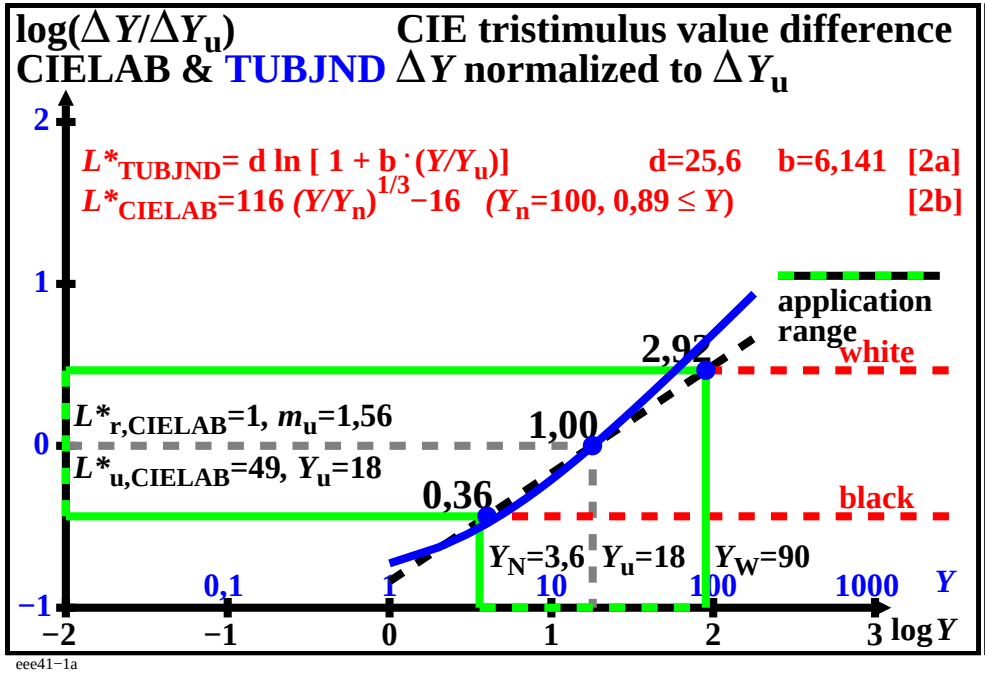
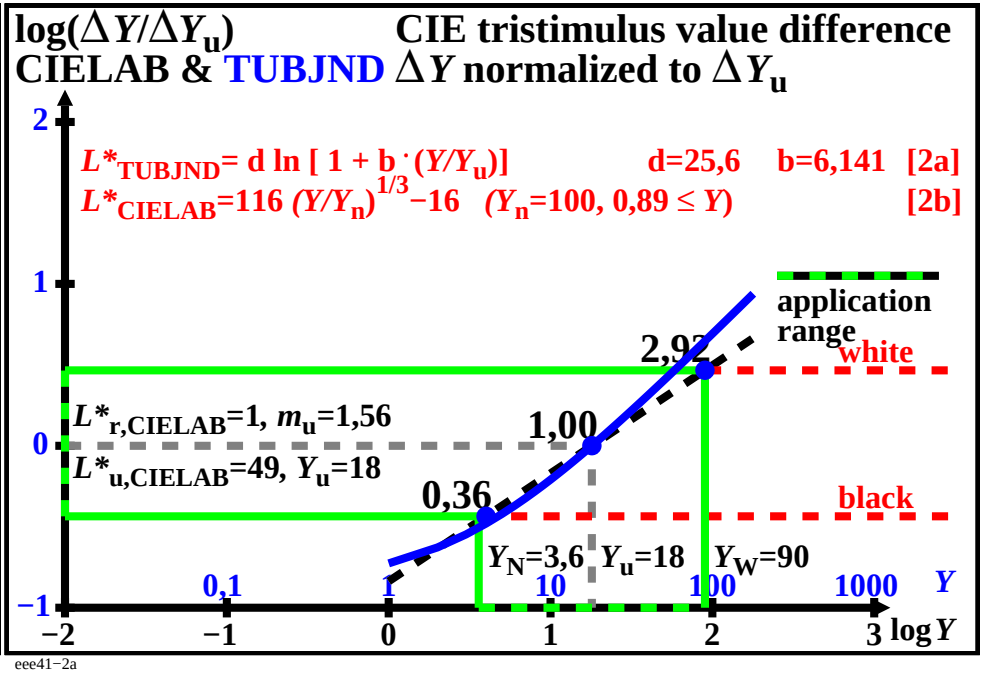

log(ΔY/ΔYu) CIE tristimulus value difference
CIELAB & TUBJND ΔY normalized to ΔYu
L*TUBJND= d ln [1 + b·(Y/Yu)] d=25,6 b=6,141 [2a]
L*CIELAB=116 (Y/Yn)1/3−16 (Yn=100, 0,89 ≤ Y) [2b]
application range
white
black
2,93
1,00
0,36
L*r,CIELAB=1, mu=1,56
L*u,CIELAB=49, Yu=18
YN=3,6 Yu=18 YW=90
0,1 1 10 100 1000 Y
2 1 0 −1
−2 −1 0 1 2 3 log Y
eee41−1a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YN=3,6 Yu=18 YW=90
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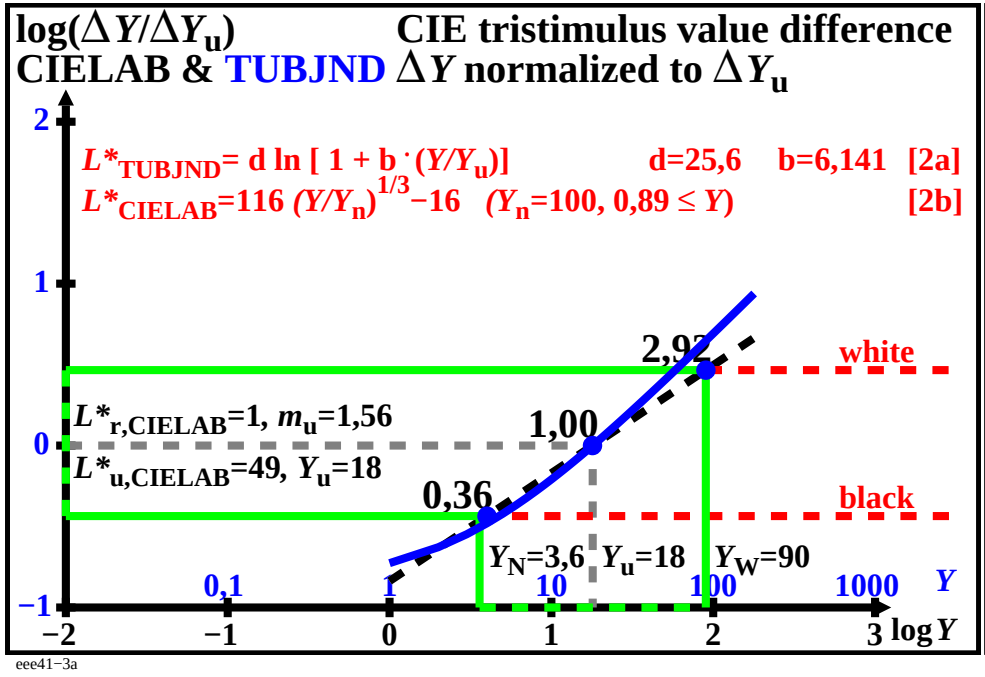
2 1 0 −1
−2 −1 0 1 2 3 log Y
eee41−2a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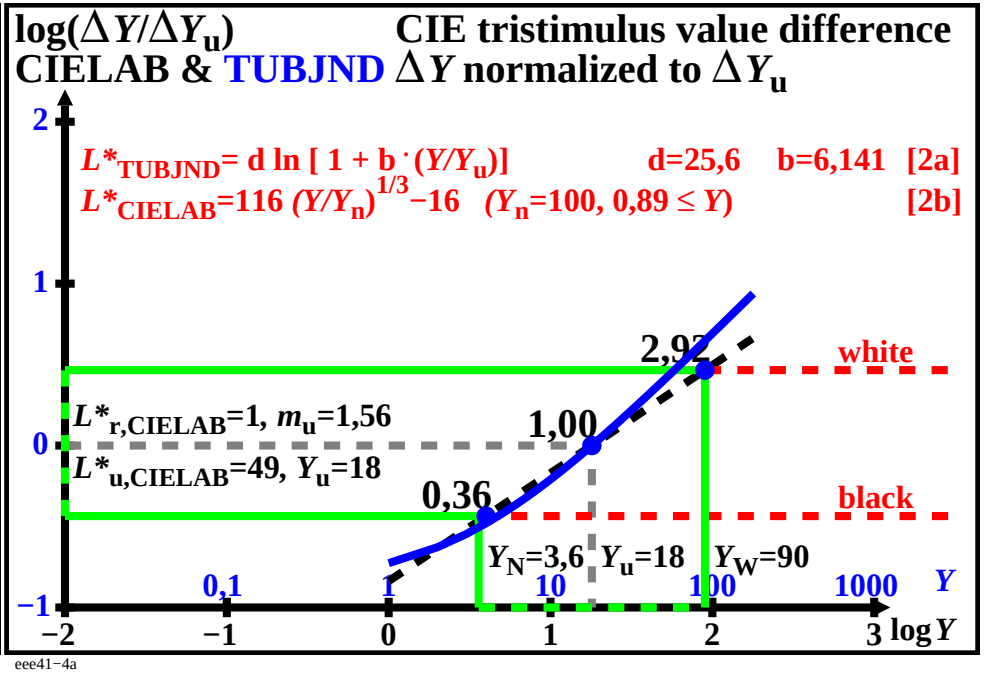
L*u,CIELAB=49, Yu=18
YN=3,6 Yu=18 YW=90
0,1 1 10 100 1000 Y
2 1 0 −1
−2 −1 0 1 2 3 log Y
eee41−3a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white
black
2,93
1,00
0,36
L*r,CIELAB=1, mu=1,56
L*u,CIELAB=49, Yu=18
YN=3,6 Yu=18 YW=90
0,1 1 10 100 1000 Y
2 1 0 −1
−2 −1 0 1 2 3 log Y
eee41−4a

eee41−3n