

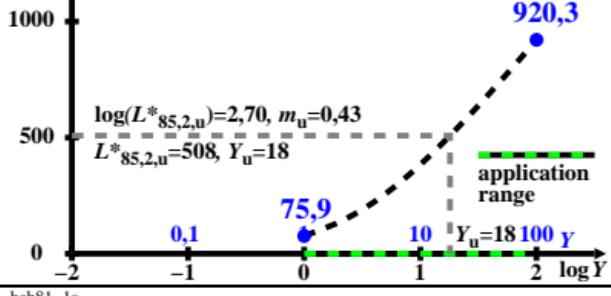
## $L^*_{85,2}$ LABJND lightness

$L^*_{85,2}$

$$L^*_{85,2} = (t/a) \ln (1 + a \cdot Y) \quad [1a]$$

$$L^*_{85,2} = (t/a) \ln [1 + b \cdot (Y/Y_u)] \quad [2a]$$

$$a=0,3411 \quad t=88,23 \quad t/a=258,6 \quad b=6,141 \quad [3a]$$



heb81-1a

$\Delta Y$

## CIE tristimulus value difference $\Delta Y$

$$\Delta Y^{L^*_{85,2}} = (t/a) \ln (1 + a \cdot Y) \quad [1c]$$

$$a=0,3411 \quad t=88,23 \quad t/a=258,6 \quad b=6,141 \quad [2c]$$

tristimulus value  $Y$  difference

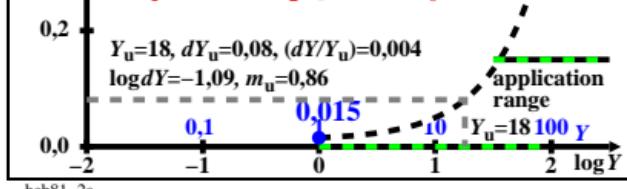
$$dY = (A_1 + A_2 \cdot Y)/A_0, \text{ see CIE 230; Eq. (A.7a)} \quad [4c]$$

$$dY = (s + q \cdot Y)/c, \text{ see Richter (1985)} \quad 0,398 \quad [3c]$$

$$dY = (1 + a \cdot Y)/t \quad [5c]$$

$$dY = (1 + b \cdot (Y/Y_u))/t \quad [6c]$$

$$A_1=s=0,0170 \quad A_2=q=0,0058 \quad A_0=c=1,5 \quad [7c]$$



heb81-2a

ΔY/Y

## CIE $Y$ sensitivity

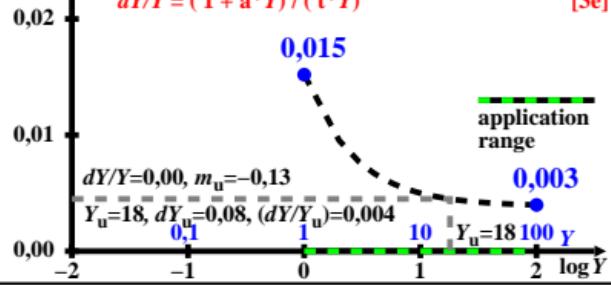
$S_r = \Delta Y/Y$

$$L^*_{85,2} = (t/a) \ln (1 + a \cdot Y) \quad [1e]$$

$$a=0,3411 \quad t=88,23 \quad t/a=258,6 \quad [2e]$$

tristimulus value  $Y$  sensitivity

$$dY/Y = (1 + a \cdot Y)/(t \cdot Y) \quad [3e]$$



heb81-3a

$\Delta Y$

## CIE $Y$ -based contrast

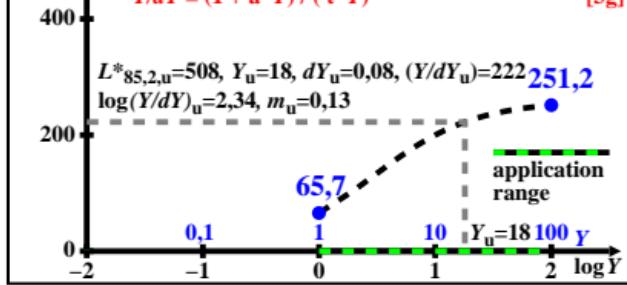
$C_r = Y/\Delta Y$

$$L^*_{85,2} = (t/a) \ln (1 + a \cdot Y) \quad [1g]$$

$$a=0,3411 \quad t=88,23 \quad t/a=258,6 \quad [2g]$$

tristimulus value  $Y$  contrast

$$Y/dY = (1 + a \cdot Y)/(t \cdot Y) \quad [3g]$$



heb81-4a

heb81-3n