

Beziehung adaptiertes (a) CIELAB ($C^*_{ab,a}$, L^*) und relatives CIELAB (c^* , t^*) System: GG83_HRS16_96_D65_00%_O0

$$l^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$$

$$t^*_{lab} = l^*_{lab} - c^*_{lab} [l^*_M - 0,5]$$

CIELAB-Buntonwinkel:

$$h_{ab,d} = [34, 99, 152, 232, 299, 349]$$

$$h_{ab,dx} = [38, 96, 151, 236, 305, 350]$$

$$b^*_{lab}$$

$$c^*_{lab}$$

M =Maximalfarbe

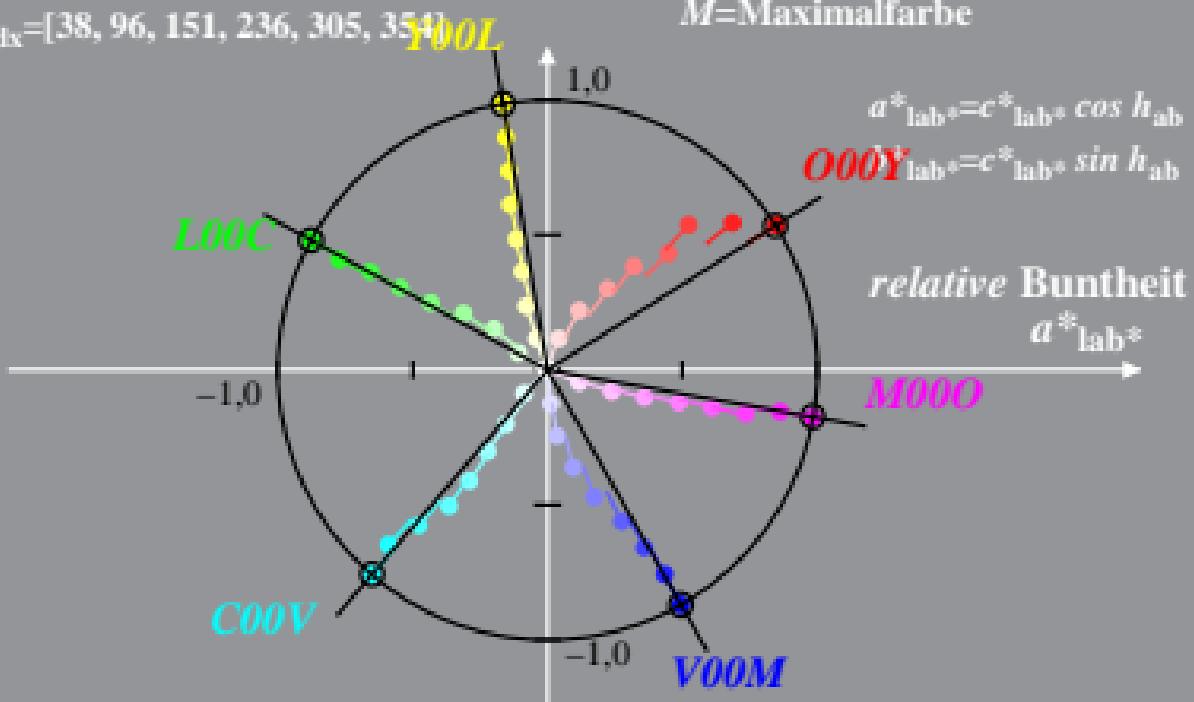
$$a^*_{lab} = c^*_{lab} \cos h_{ab}$$

$$O00Y_{lab} = c^*_{lab} \sin h_{ab}$$

relative Buntheit

$$a^*_{lab}$$

$M000$



Beziehung adaptiertes (a) CIELAB ($C^*_{ab,a}$, L^*) und relatives CIELAB (c^* , t^*)
 System: GG83_HRS16_96_D65_00%_O1 $l^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$

CIELAB-Buntonwinkel:

$$h_{ab,d} = [34, 99, 152, 232, 299, 349]$$

$$h_{ab,dx} = [38, 96, 151, 236, 305, 350]$$

$$b^*_{lab^*}$$

$$t^*_{lab^*} = l^*_{lab^*} - c^*_{lab^*} [l^*_M - 0,5]$$

$$c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$

M =Maximalfarbe

Y00L

L00C

C00V

V00M

O00Y

M000

a*_{lab*}

c*_{lab*}

relative Buntheit

$a^*_{lab^*}$

$c^*_{lab^*}$

h_{ab}

$h_{ab,d}$

$h_{ab,dx}$

$h_{ab,d}$

Beziehung adaptiertes (a) CIELAB ($C^*_{ab,a}$, L^*) und relatives CIELAB (c^* , t^*)
 System: GG83_HRS16_96_D65_25%_O0 $I^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$

CIELAB-Buntonwinkel:

$$h_{ab,d} = [34, 99, 152, 232, 299, 349]$$

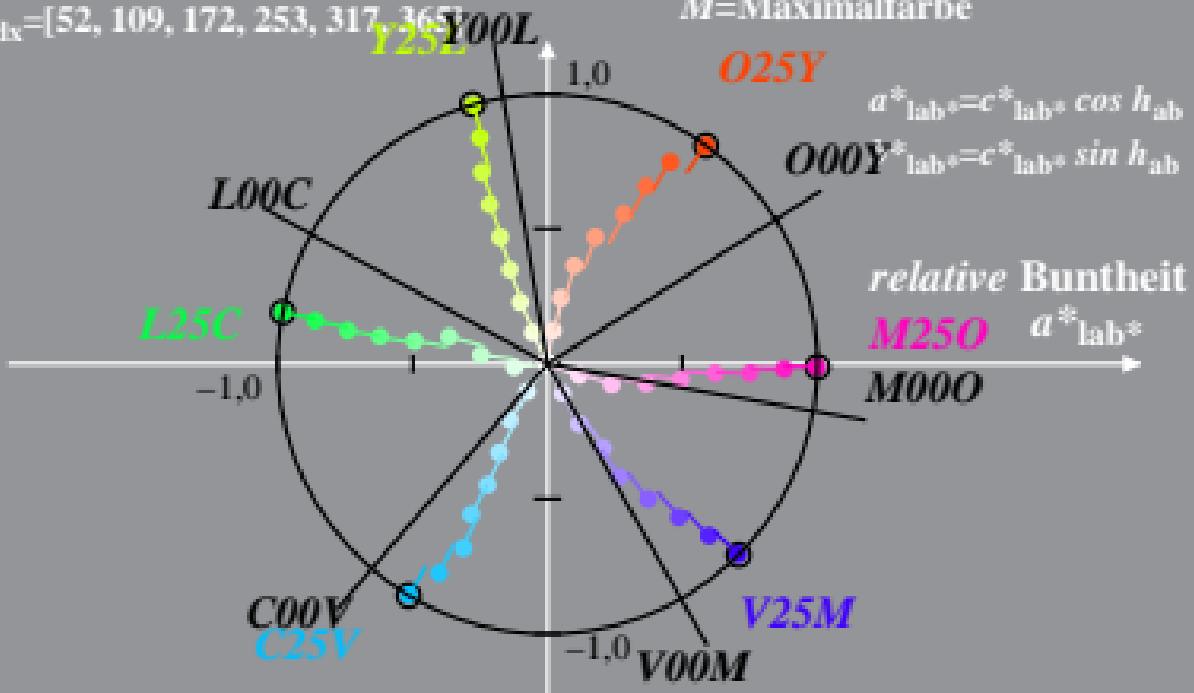
$$h_{ab,dx} = [52, 109, 172, 253, 317, 365]$$

$$b^*_{lab^*}$$

$$t^*_{lab^*} = I^*_{lab^*} - c^*_{lab^*} [I^*_M - 0,5]$$

$$c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$

M =Maximalfarbe



Beziehung adaptiertes (a) CIELAB ($C^*_{ab,a}$, L^*) und relatives CIELAB (c^* , t^*) System: GG83_HRS16_96_D65_25%_O1

$$l^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$$

$$t^*_{lab} = l^*_{lab} - c^*_{lab} [l^*_M - 0,5]$$

CIELAB-Buntonwinkel:

$$h_{ab,d} = [34, 99, 152, 232, 299, 349]$$

$$b^*_{lab}$$

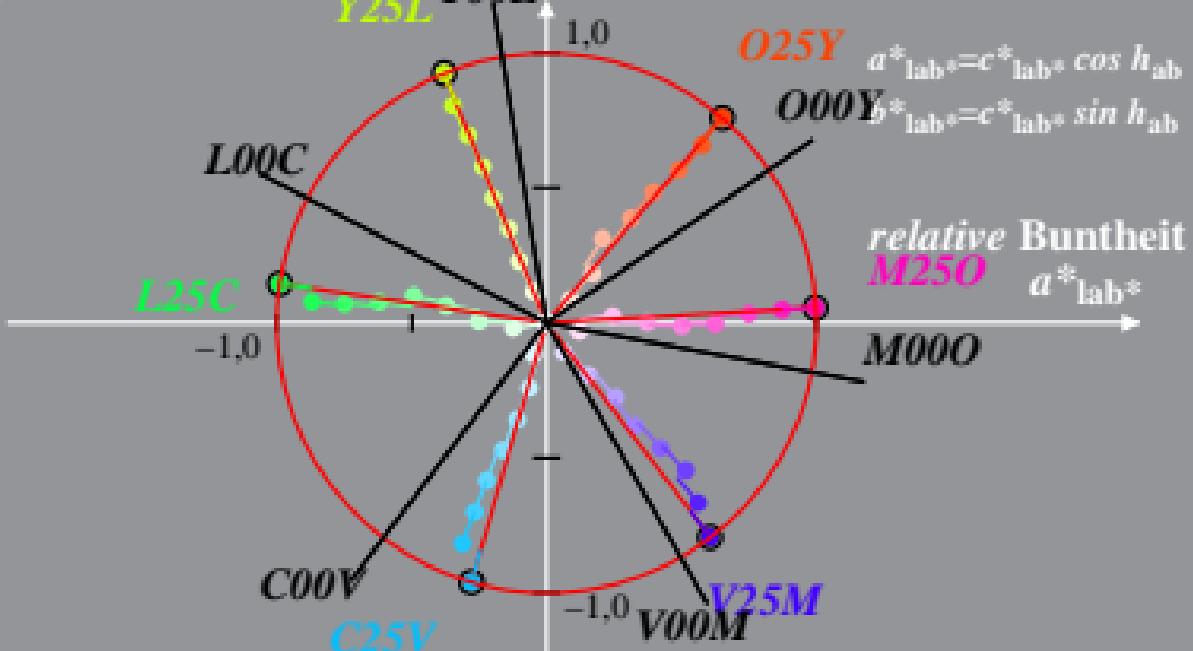
$$c^*_{lab} = C^*_{ab,a} / C^*_{ab,a,M}$$

M =Maximalfarbe

$$h_{ab,dx} = [52, 109, 172, 253, 317, 365]$$

$Y00L$

$Y25L$



Beziehung adaptiertes (a) CIELAB ($C^*_{ab,a}$, L^*) und relatives CIELAB (c^* , t^*) System: GG83_HRS16_96_D65_50%_O0

$$l^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$$

$$t^*_{lab} = l^*_{lab} - c^*_{lab} [l^*_M - 0,5]$$

CIELAB-Buntonwinkel:

$$h_{ab,d} = [34, 99, 152, 232, 299, 349]$$

$$h_{ab,dx} = [67, 123, 193, 270, 329, 376]$$

$$b^*_{lab}$$

$$c^*_{lab} = C^*_{ab,a} / C^*_{ab,a,M}$$

$$Y00L$$

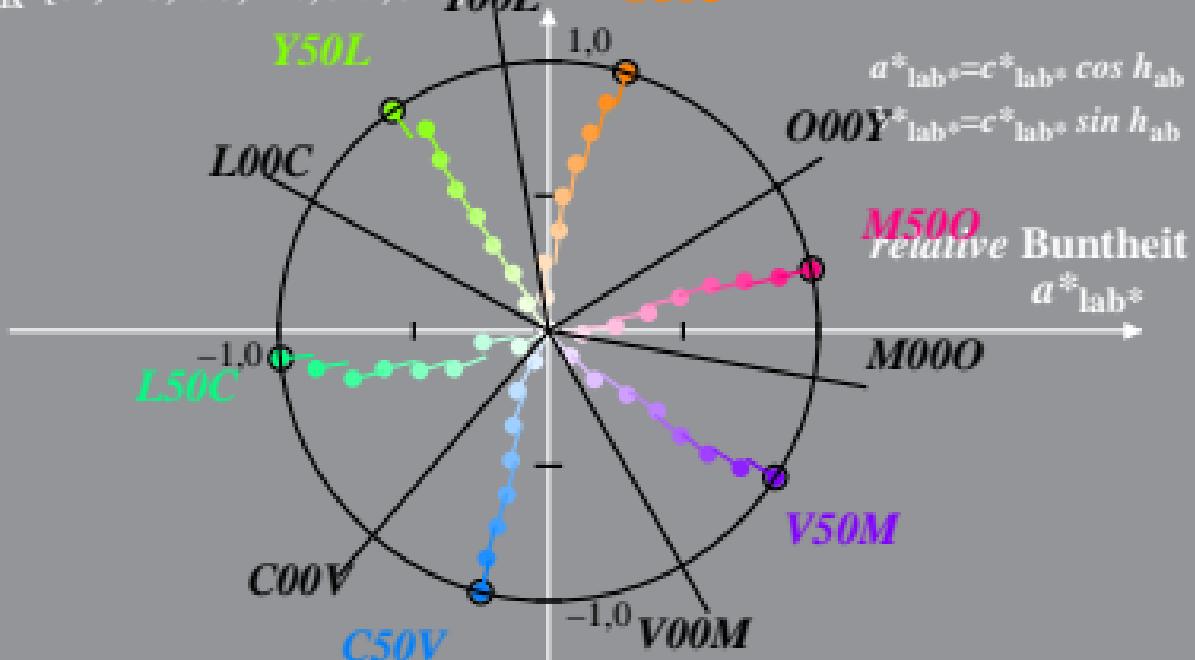
$$O50Y$$

$$M=Maximalfarbe$$

$$a^*_{lab} = c^*_{lab} \cos h_{ab}$$

$$O00Y^*_{lab} = c^*_{lab} \sin h_{ab}$$

M50O
relative Buntheit
 a^*_{lab}



Beziehung adaptiertes (a) CIELAB ($C^*_{ab,a}$, L^*) und relatives CIELAB (c^* , t^*)
 System: GG83_HRS16_96_D65_50%_O1 $I^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$

CIELAB-Buntonwinkel:

$$h_{ab,d} = [34, 99, 152, 232, 299, 349]$$

$$h_{ab,dx} = [67, 123, 193, 270, 329, 376]$$

$$b^*_{lab^*}$$

$$t^*_{lab^*} = I^*_{lab^*} - c^*_{lab^*} \quad [I^*_M - 0,5]$$

$$c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$

M =Maximalfarbe

O50Y

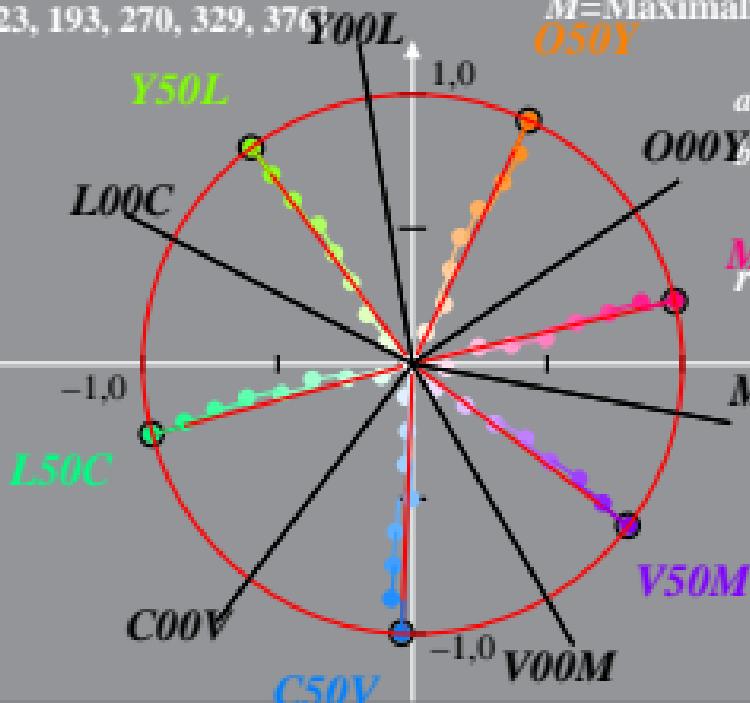
$$a^*_{lab^*} = c^*_{lab^*} \cos h_{ab}$$

$$Y^*_{lab^*} = c^*_{lab^*} \sin h_{ab}$$

M50O
relative Buntheit

$$a^*_{lab^*}$$

M000



Beziehung adaptiertes (a) CIELAB ($C^*_{ab,a}$, L^*) und relatives CIELAB (c^* , t^*)
 System: GG83_HRS16_96_D65_75%_O0 $I^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$

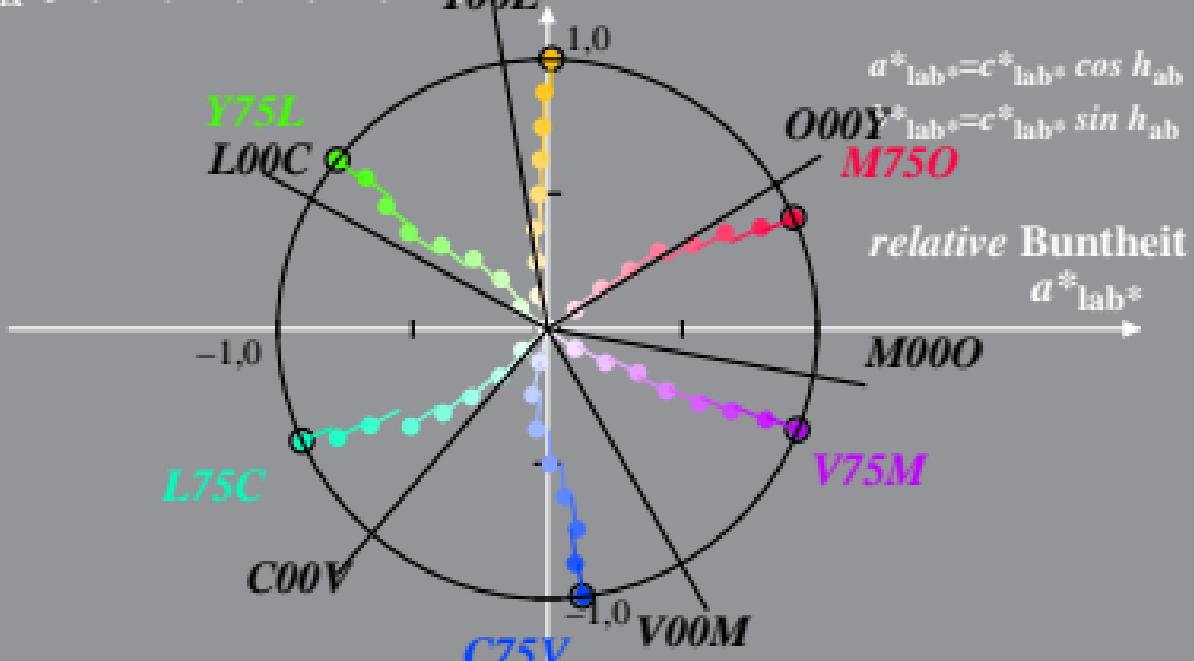
CIELAB-Buntonwinkel:

$$h_{ab,d} = [34, 99, 152, 232, 299, 349]$$

$$h_{ab,dx} = [81, 137, 214, 287, 341, 387]$$

$$t^*_{lab^*} = I^*_{lab^*} - c^*_{lab^*} \quad [I^*_M - 0,5] \\ b^*_{lab^*} \quad c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$

$Y00L$ $O75Y$ M =Maximalfarbe



Beziehung adaptiertes (a) CIELAB ($C^*_{\text{ab,a}}, L^*$) und relatives CIELAB (c^*, t^*) System: GG83_HRS16_96_D65_75%_O1 $L^*_{\text{rel}} = (L^*_{\text{ab,a}} - L^*_{\text{ab,ref}}) / (L^*_{\text{ab,ref}} - L^*_{\text{ab,ref}})$

$$I^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$$

$$I^*|_{\text{ab}^*} = I^*|_{\text{ab}^*} - c^*|_{\text{ab}^*} [I^*_M - 0.5]$$

CIELAB-Bunntonwinkel:

$$b^*_{\text{lab}^*} \cdot c^*|_{\text{lab}^*} = C^*_{\text{lab}^*} / C^*_{\text{lab}^* M}$$

$$h_{\text{sh},d} = [34, 99, 152, 232, 299, 349]$$

$h_{ab,dy} = [81, 137, 214, 287, 341, 387] \gamma_{00L}$, 075YM=Maximalfarbe

