

Beziehung adaptiertes (a) CIELAB ($C^*_{ab,a}$, L^*) und relatives CIELAB (c^* , t^*) System: GG84_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:

$$h_{ab,d} = [33, 100, 154, 227, 295, 347]$$

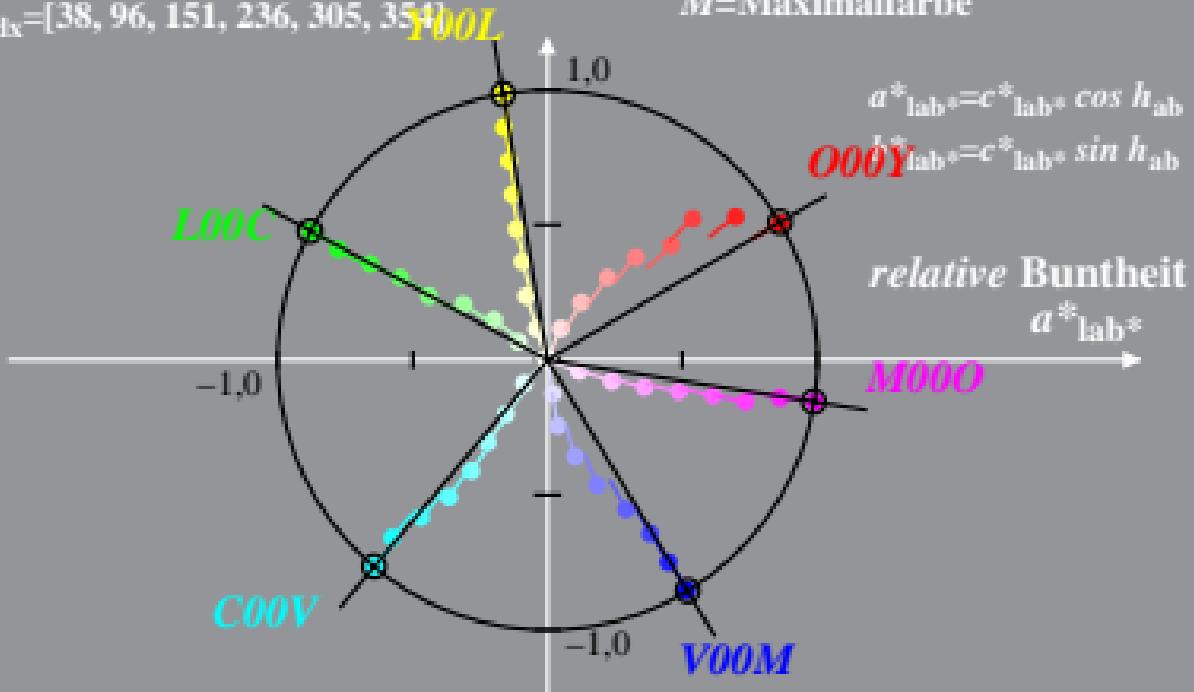
$$h_{ab,dx} = [38, 96, 151, 236, 305, 350]$$

$$b^*_{lab}$$

$$c^*_{lab}$$

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

M =Maximalfarbe



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

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

relative Buntheit

$$a^*_{lab}$$

$$M000$$

Beziehung adaptiertes (a) CIELAB ($C^*_{ab,a}$, L^*) und relatives CIELAB (c^* , t^*) System: GG84_HRS16_96_D65_00%_O1

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

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

CIELAB-Buntonwinkel:

$$h_{ab,d} = [33, 100, 154, 227, 295, 347]$$

$$h_{ab,dx} = [38, 96, 151, 236, 305, 354]$$

$$b^*_{lab}$$

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

M =Maximalfarbe

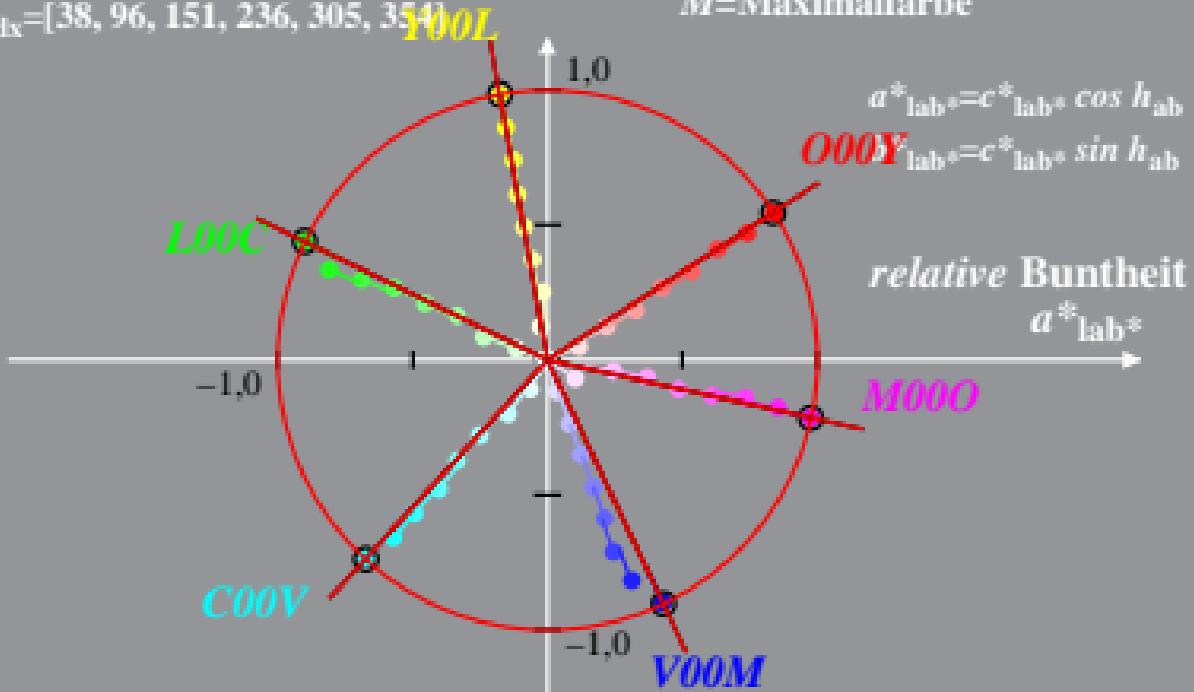
$$a^*_{lab} = c^*_{lab} \cos h_{ab}$$

$$000Y_{lab} = c^*_{lab} \sin h_{ab}$$

relative Buntheit

$$a^*_{lab}$$

$M000$



Beziehung adaptiertes (a) CIELAB ($C^*_{ab,a}$, L^*) und relatives CIELAB (c^* , t^*) System: GG84_HRS16_96_D65_25%_O0

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

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

CIELAB-Buntonwinkel:

$$h_{ab,d} = [33, 100, 154, 227, 295, 347]$$

$$h_{ab,dx} = [52, 109, 172, 253, 317, 367]$$

$$b^*_{lab}$$

$$c^*_{lab}$$

M =Maximalfarbe

$Y25Y00L$

$O25Y$

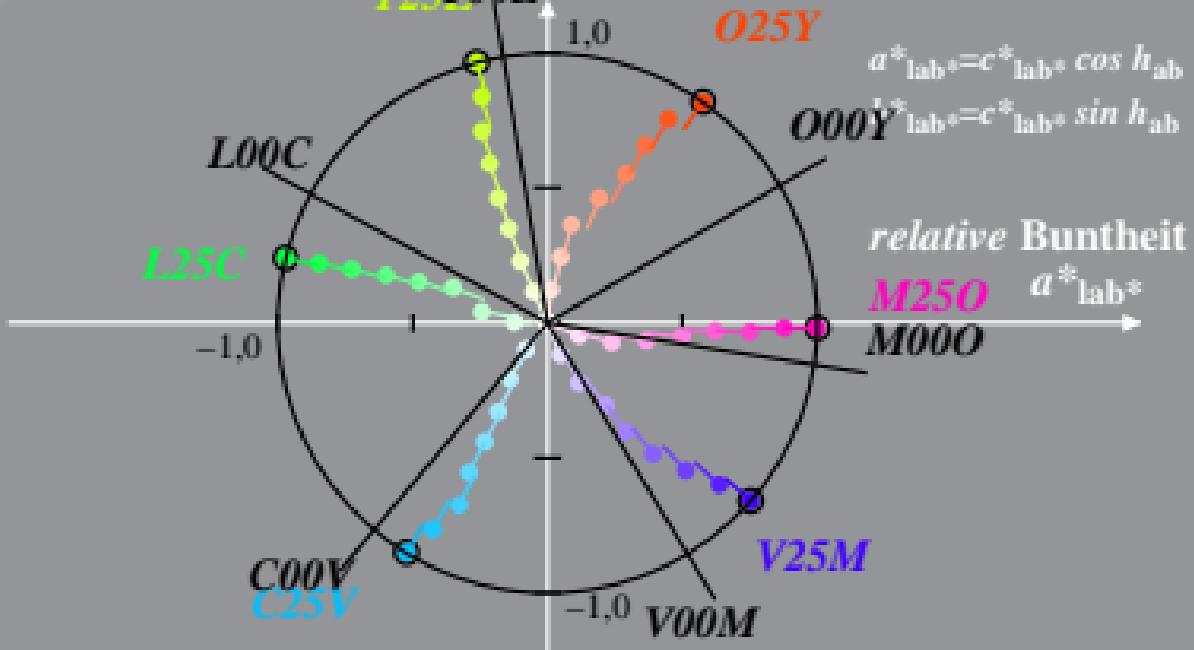
$$a^*_{lab} = c^*_{lab} \cos h_{ab}$$

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

relative Buntheit

$$M25O \quad a^*_{lab}$$

$$M000 \quad M$$



Beziehung adaptiertes (a) CIELAB ($C^*_{ab,a}$, L^*) und relatives CIELAB (c^* , t^*) System: GG84_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:

$$h_{ab,d} = [33, 100, 154, 227, 295, 347]$$

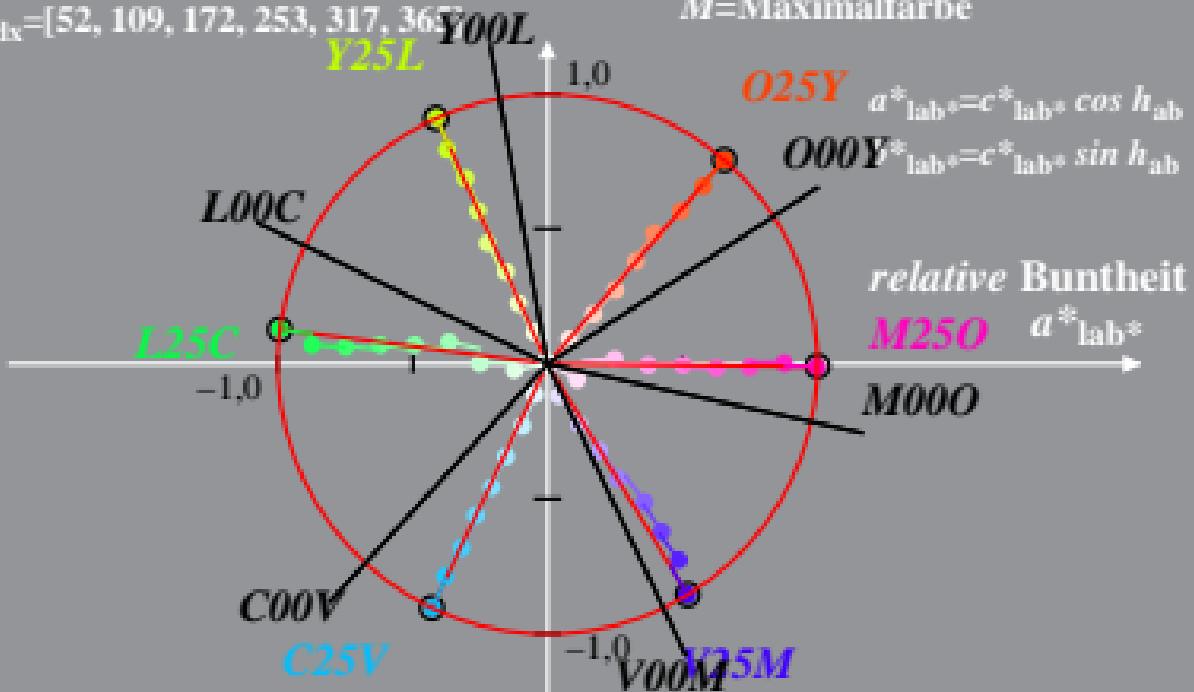
$$h_{ab,dx} = [52, 109, 172, 253, 317, 365]$$

$$b^*_{lab}$$

$$c^*_{lab}$$

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

M =Maximalfarbe



Beziehung adaptiertes (a) CIELAB ($C^*_{ab,a}$, L^*) und relatives CIELAB (c^* , t^*)
 System: GG84_HRS16_96_D65_50%_O0 $I^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$

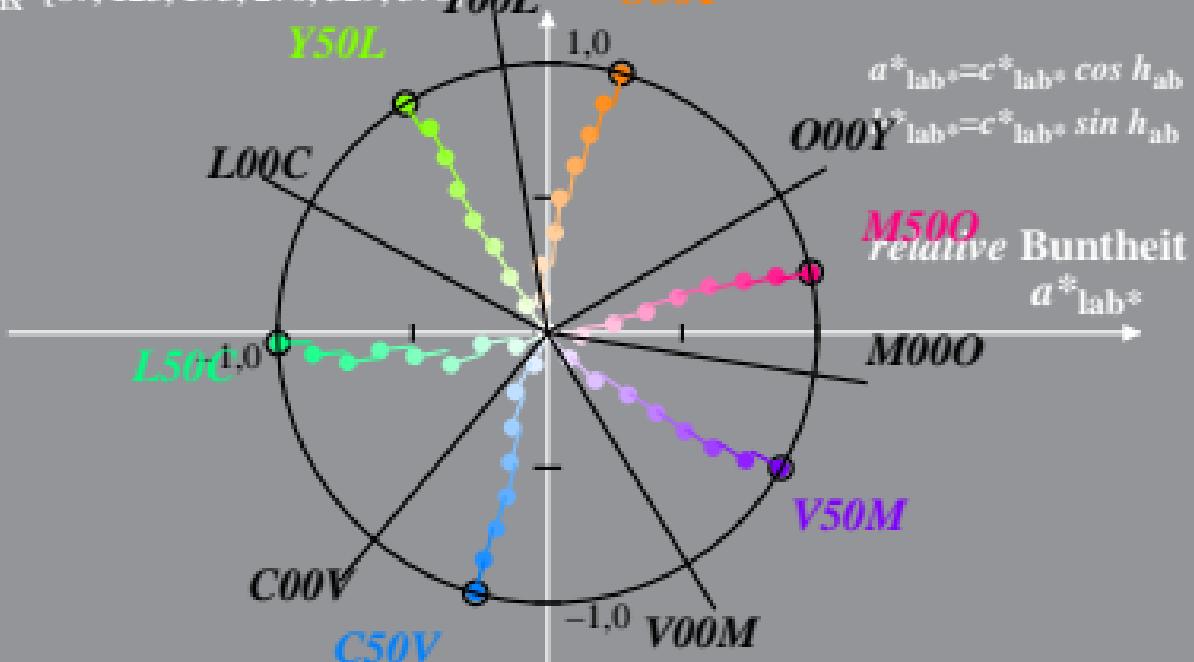
CIELAB-Buntonwinkel:

$$h_{ab,d} = [33, 100, 154, 227, 295, 347]$$

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

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

$M=$ Maximalfarbe



Beziehung adaptiertes (a) CIELAB ($C^*_{ab,a}$, L^*) und relatives CIELAB (c^* , t^*)
 System: GG84_HRS16_96_D65_50%_O1 $I^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$

CIELAB-Buntonwinkel:

$$h_{ab,d} = [33, 100, 154, 227, 295, 347]$$

$$h_{ab,dx} = [67, 123, 193, 270, 329, 370]$$

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

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

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

M =Maximalfarbe

$O50Y$

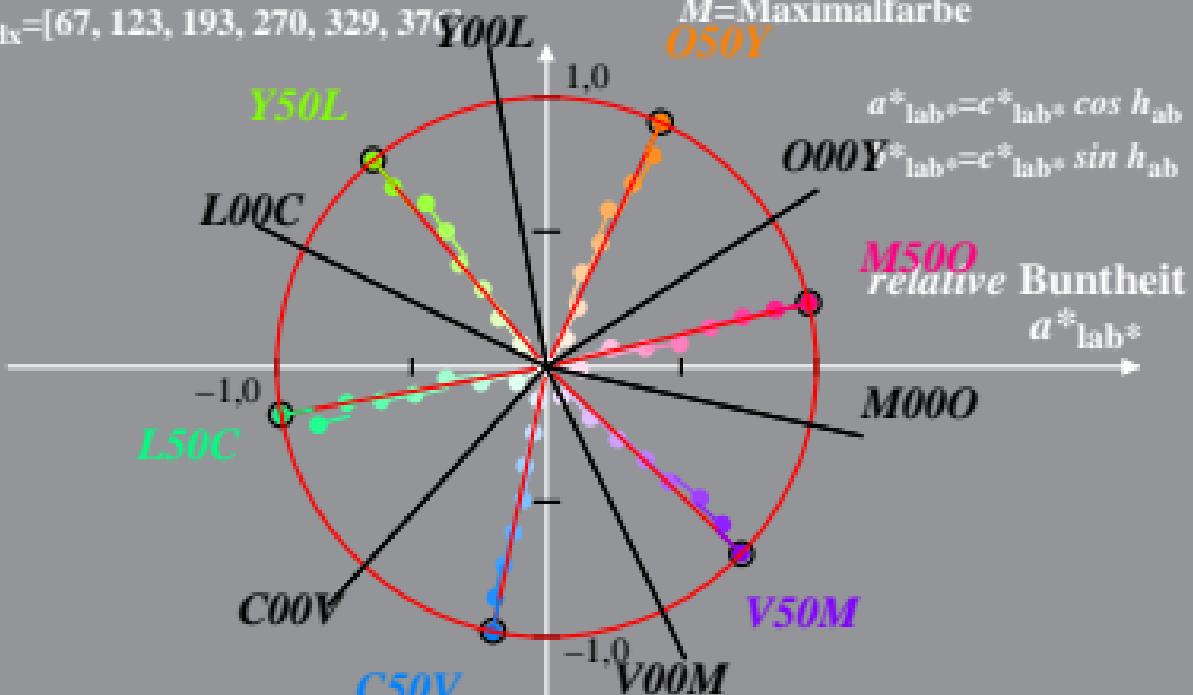
$$a^*_{lab^*} = c^*_{lab^*} \cos h_{ab}$$

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

$M50O$
relative Buntheit

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

$M000$



Beziehung adaptiertes (a) CIELAB ($C^*_{ab,a}, L^*$) und relatives CIELAB (c^*, t^*) System: GG84_HRS16_96_D65_75%_00 $t^*_{...} = (L^*_{...} - L^*_{\text{ref}}) / (L^*_{\text{ref}} - L^*_{\text{min}})$

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

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

$$b^*_{\text{lab}^*} - c^*_{\text{lab}^*} = C^*_{\text{ab}^*} / C^*_{\text{ab}^*\text{M}}$$

CIELAB-Buntpunktwinkel:

$$h_{ab,q} = [33, 100, 154, 227, 295, 347]$$

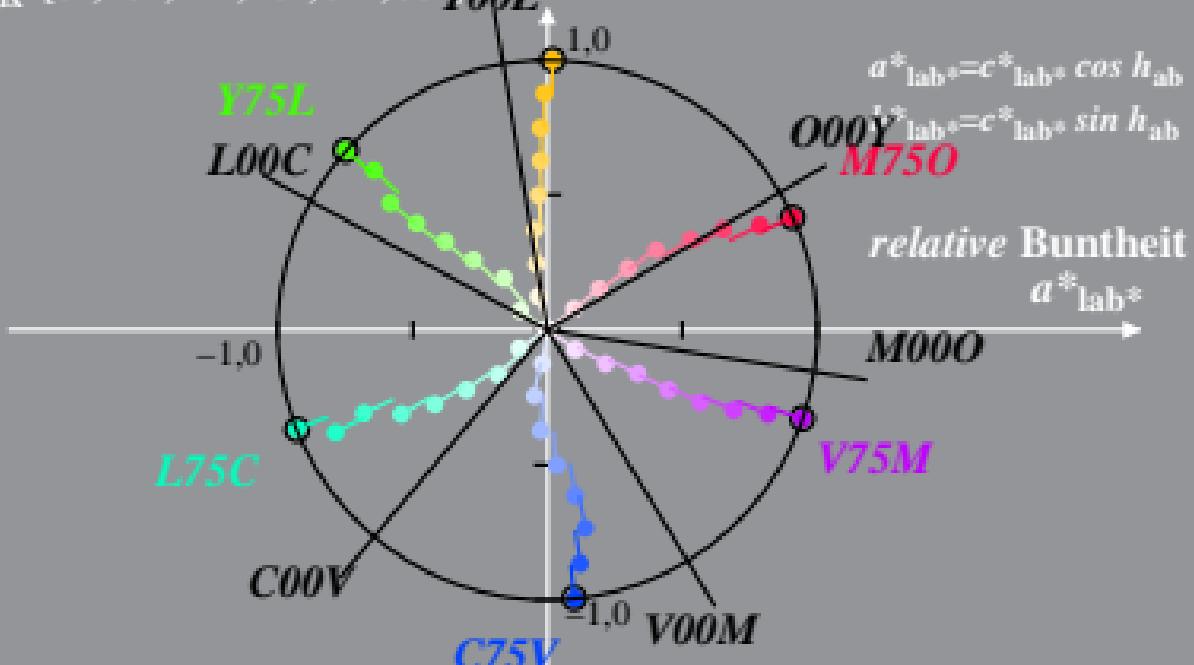
$h_{ab,4x} = [81, 137, 214, 287, 341, 38]$

b6
b7c

$$e^+ lab = L^+ aba / L^+ aba M$$

Yool O75Y

M=Maximalfarbe



Beziehung adaptiertes (a) CIELAB ($C^*_{ab,a}$, L^*) und relatives CIELAB (c^* , t^*) System: GG84_HRS16_96_D65_75%_O1

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

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

CIELAB-Buntonwinkel:

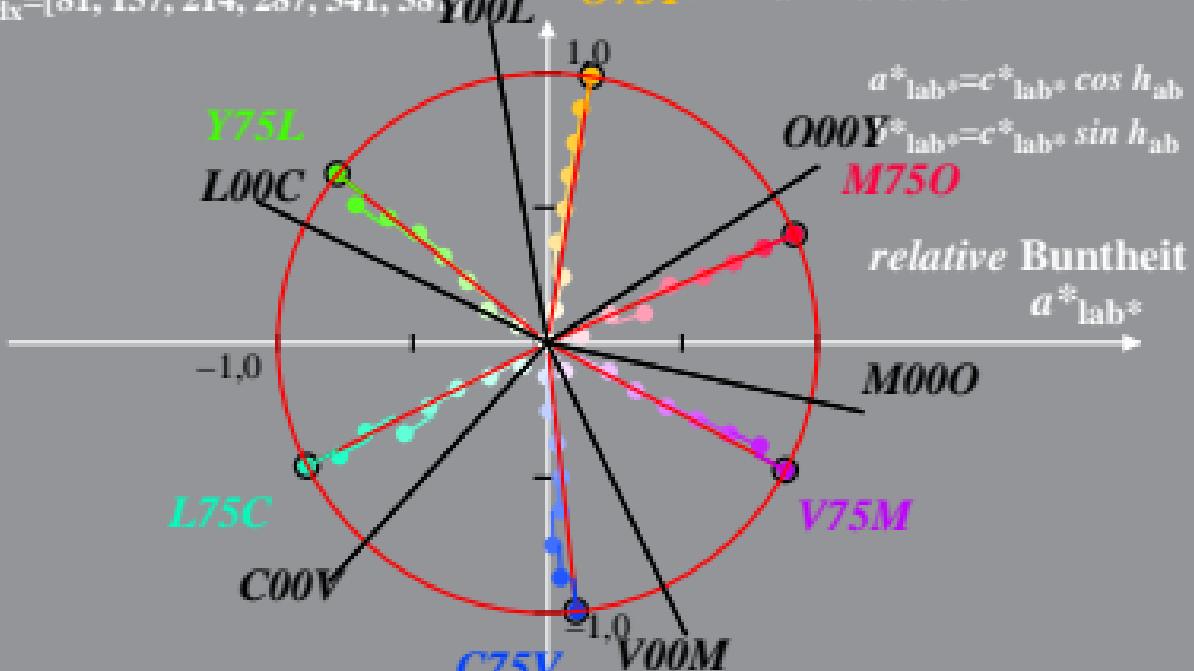
$$h_{ab,d} = [33, 100, 154, 227, 295, 347]$$

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

$$b^*_{lab}$$

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

$O75Y$ M=Maximalfarbe



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

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

$M75O$

relative Buntheit

$$a^*_{lab}$$

$M000$