

Beziehung adaptiertes (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) und relatives CIELAB ( $c^*$ ,  $t^*$ ) System: GG80\_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:

$$h_{ab,d} = [32, 100, 145, 206, 265, 348]$$

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

$$b^*_{lab}$$

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

$M$ =Maximalfarbe

**Y00L**

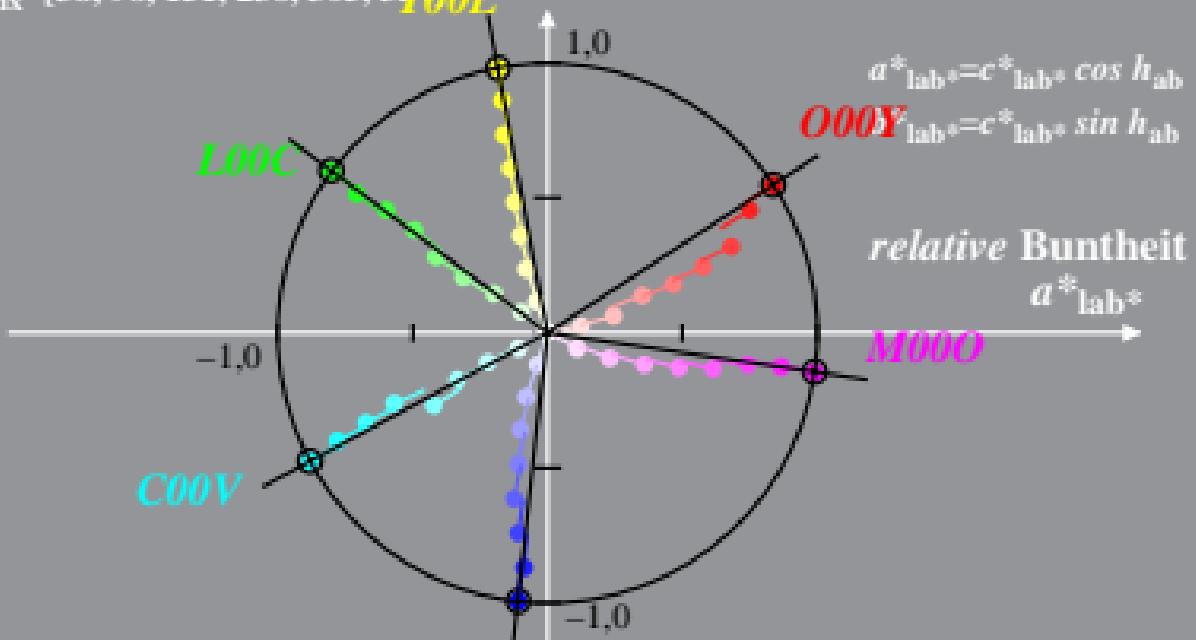
$$a^*_{lab} = c^*_{lab} \cos h_{ab}$$

$$\textcolor{red}{000Y}_{lab} = c^*_{lab} \sin h_{ab}$$

relative Buntheit

$$a^*_{lab}$$

**M000**



Beziehung adaptiertes (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) und relatives CIELAB ( $c^*$ ,  $t^*$ ) System: GG80\_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:

$$h_{ab,d} = [32, 100, 145, 206, 265, 348]$$

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

$$b^*_{lab}$$

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

$M$ =Maximalfarbe

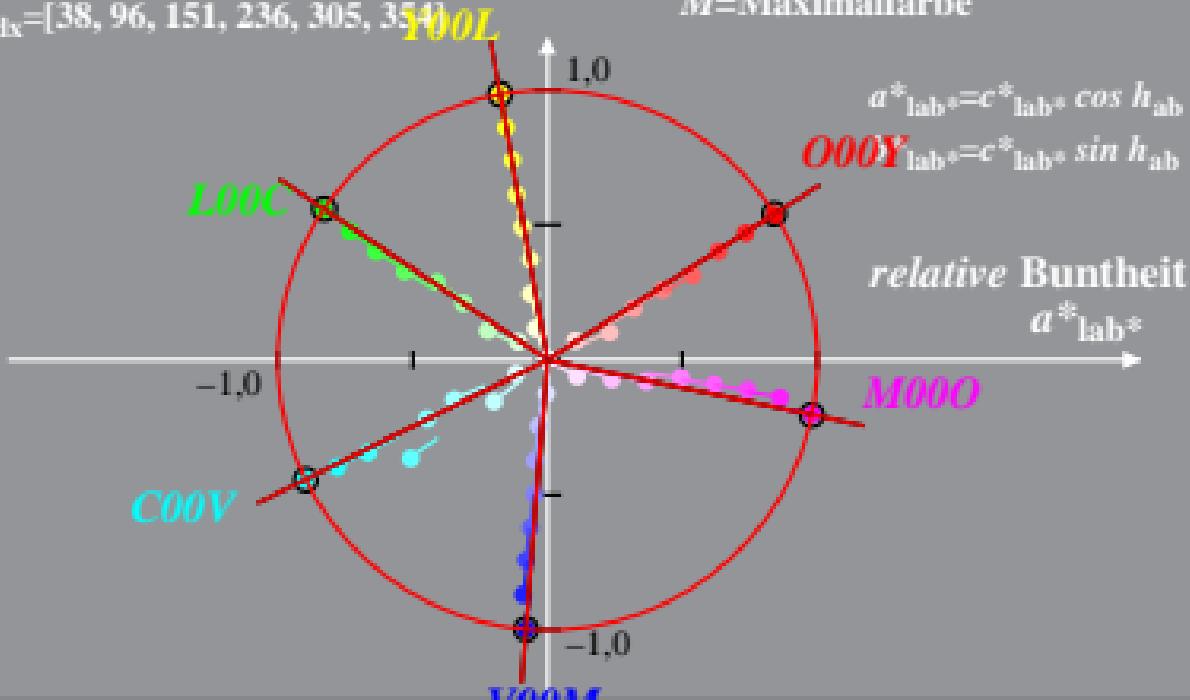
$$a^*_{lab} = c^*_{lab} \cos h_{ab}$$

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

relative Buntheit

$$a^*_{lab}$$

$M000$



Beziehung adaptiertes (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) und relatives CIELAB ( $c^*$ ,  $t^*$ )  
 System: GG80\_HRS16\_96\_D65\_25%\_O0       $I^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$

CIELAB-Buntonwinkel:

$$h_{ab,d} = [32, 100, 145, 206, 265, 348]$$

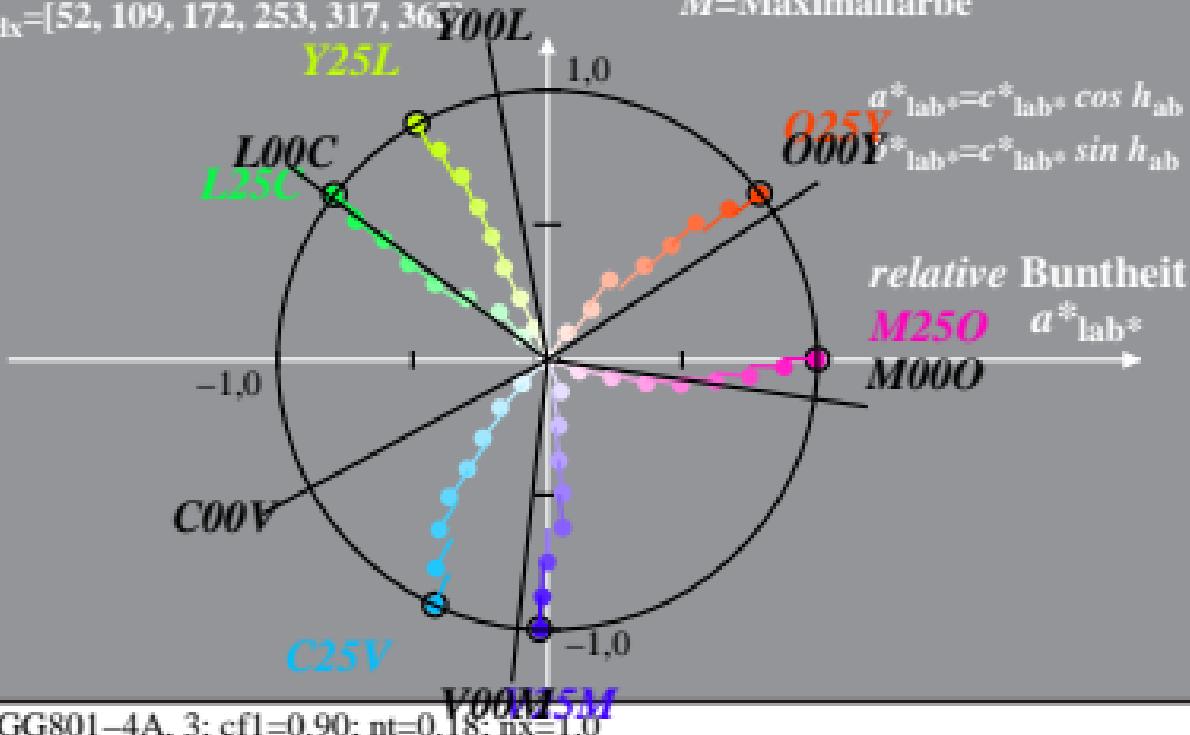
$$h_{ab,dx} = [52, 109, 172, 253, 317, 367]$$

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

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

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

$M$ =Maximalfarbe



Beziehung adaptiertes (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) und relatives CIELAB ( $c^*$ ,  $t^*$ ) System: GG80\_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:

$$h_{ab,d} = [32, 100, 145, 206, 265, 348]$$

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

$$b^*_{lab}$$

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

$M$ =Maximalfarbe

$Y25L$

$Y00L$

$Y25L$

$O25Y$

$O00Y$

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

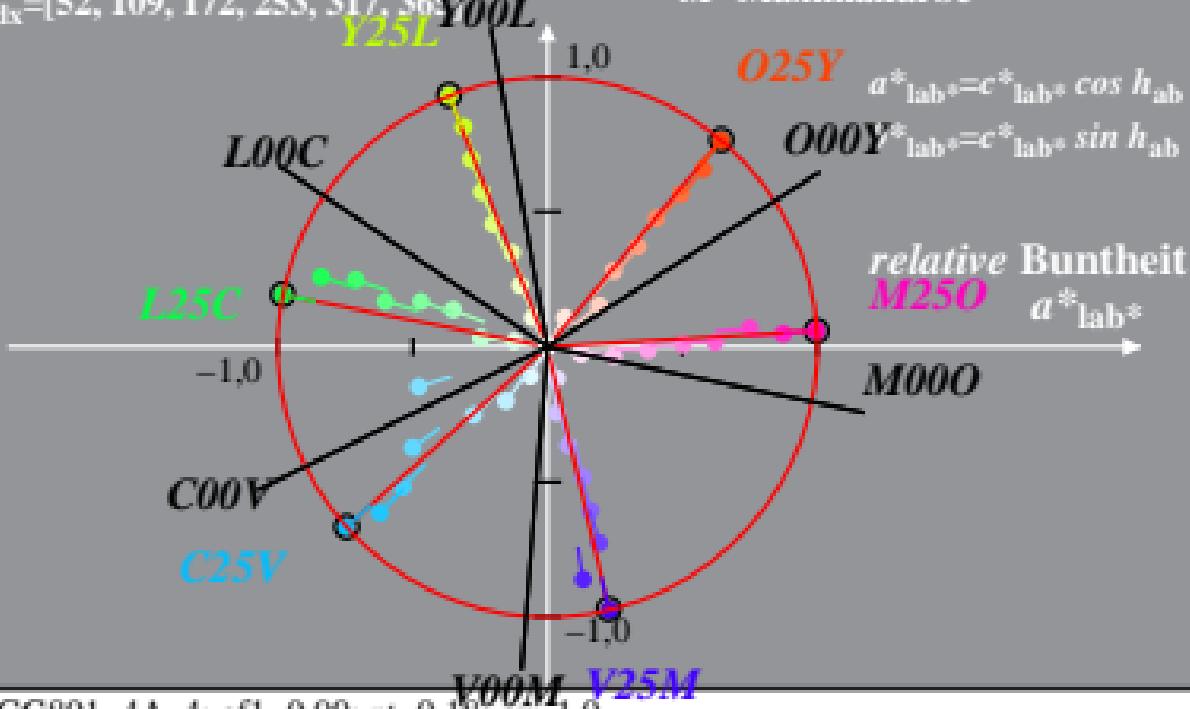
$$Y^*_{lab} = c^*_{lab} \sin h_{ab}$$

relative Buntheit

$M25O$

$$a^*_{lab}$$

$M00O$



Beziehung adaptiertes (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) und relatives CIELAB ( $c^*$ ,  $t^*$ ) System: GG80\_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:

$$h_{ab,d} = [32, 100, 145, 206, 265, 348]$$

$$h_{ab,dx} = [67, 123, 193, 270, 329, 377]$$

$$b^*_{lab}$$

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

$M$ =Maximalfarbe

O50Y

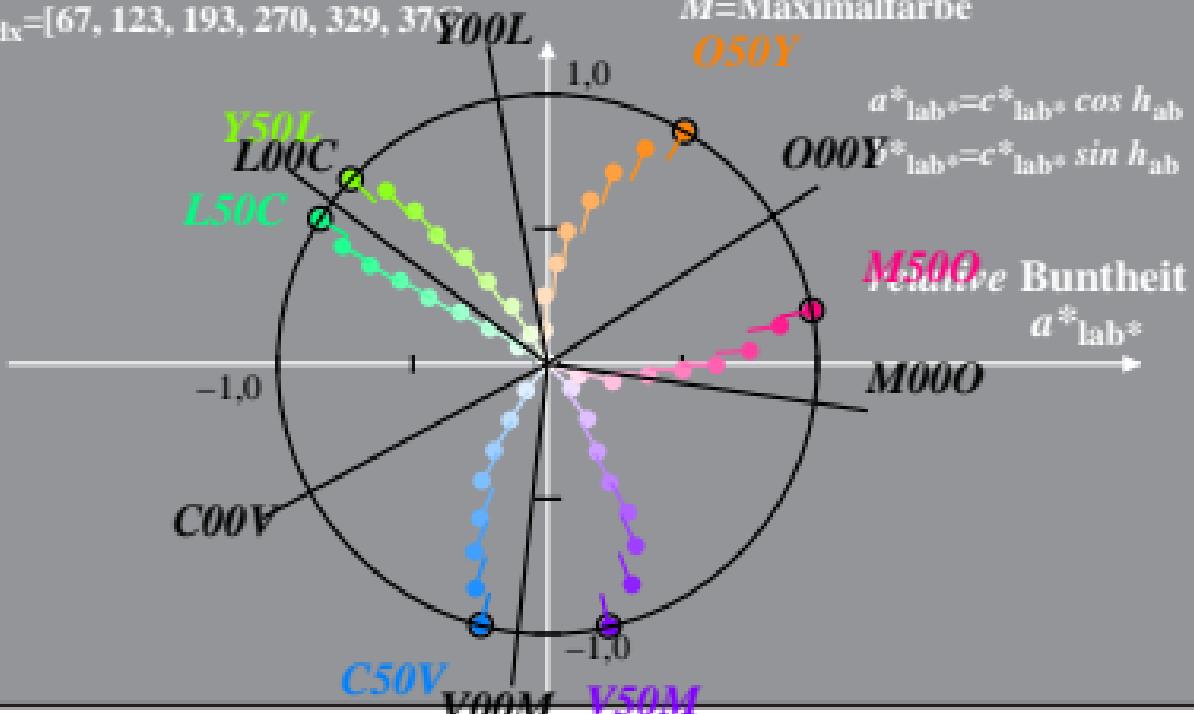
$$a^*_{lab} = c^*_{lab} \cos h_{ab}$$

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

*M500e Buntheit*

$$a^*_{lab}$$

M000



Beziehung adaptiertes (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) und relatives CIELAB ( $c^*$ ,  $t^*$ )  
 System: GG80\_HRS16\_96\_D65\_50%\_O1     $l^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$

CIELAB-Buntonwinkel:

$$h_{ab,d} = [32, 100, 145, 206, 265, 348]$$

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

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

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

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

$M$ =Maximalfarbe

**O50Y**

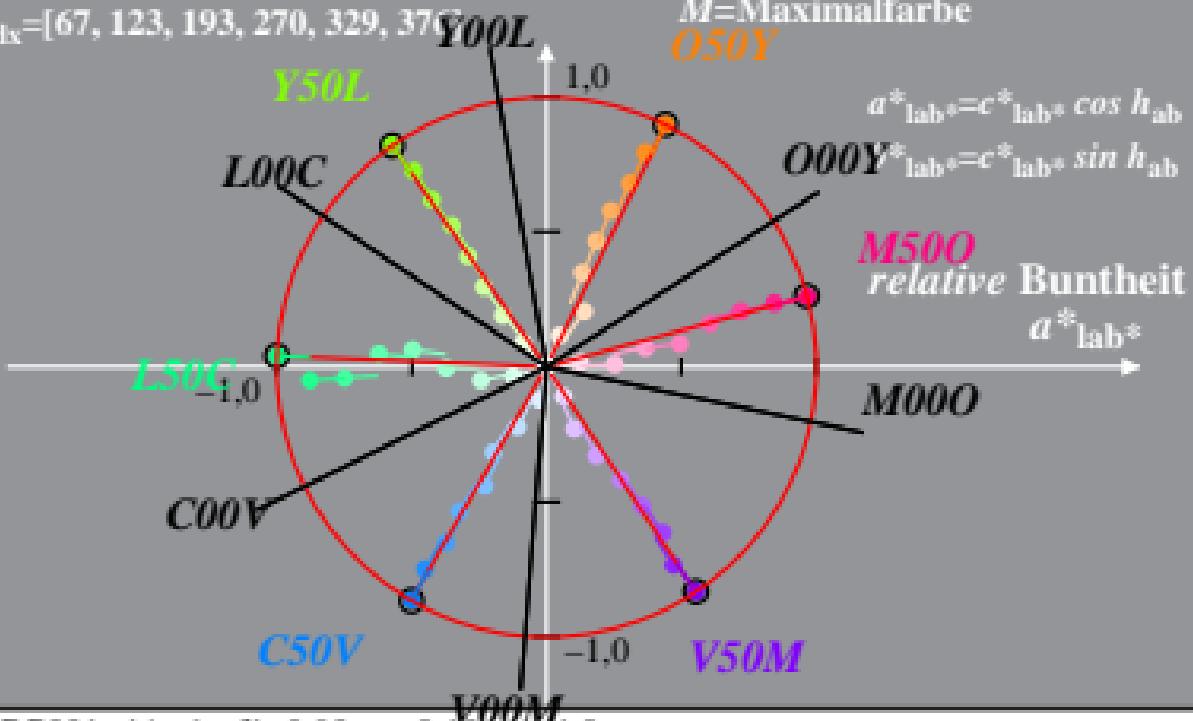
$$a^*_{lab^*} = c^*_{lab^*} \cos h_{ab}$$

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

**M50O**  
relative Buntheit

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

**M000**



Beziehung adaptiertes (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) und relatives CIELAB ( $c^*$ ,  $t^*$ ) System: GG80\_HRS16\_96\_D65\_75%\_O0

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

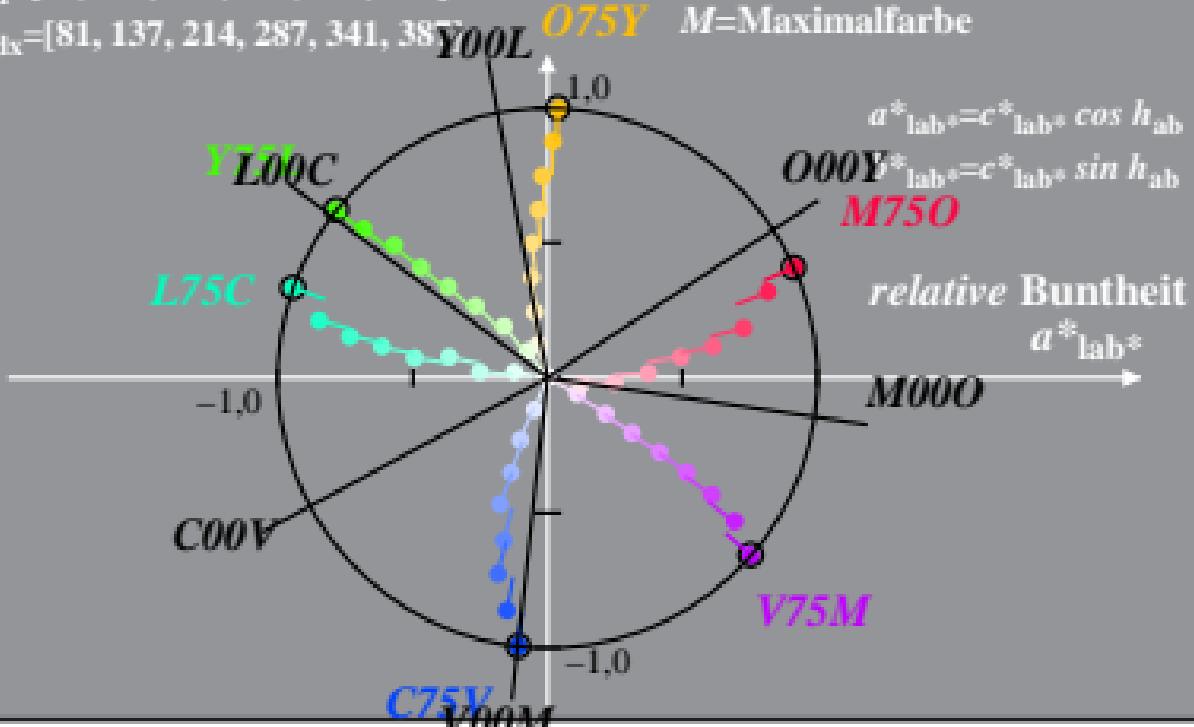
$$t^*_{lab} = l^*_{lab} - c^*_{lab} [ l^*_M - 0,5 ]$$

CIELAB-Buntonwinkel:

$$h_{ab,d} = [32, 100, 145, 206, 265, 348]$$

$$h_{ab,dx} = [81, 137, 214, 287, 341, 387] \quad Y00L \quad O75Y \quad M=\text{Maximalfarbe}$$

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



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

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

**M75O**

relative Buntheit

$$a^*_{lab}$$

**M000**

Beziehung adaptiertes (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) und relatives CIELAB ( $c^*$ ,  $t^*$ ) System: GG80\_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:

$$h_{ab,d} = [32, 100, 145, 206, 265, 348]$$

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

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

$O75Y$  M=Maximalfarbe

