

Beziehung *adaptiertes* (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) und *relative* CIELAB ( $c^*$ ,  $l^*$ )  
 System: GG89\_FRS09\_92\_D65\_00%\_O0

CIELAB-Buntonwinkel:

$h_{ab,d}=[35, 92, 143, 224, 313, 338]$

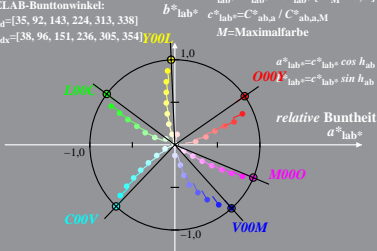
$h_{ab,dx}=[38, 96, 151, 236, 305, 354]$  **Y00L**

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

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

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

$M$ =Maximalfarbe



Beziehung *adaptiertes* (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) und *relative* CIELAB ( $c^*$ ,  $l^*$ )  
 System: GG89\_FRS09\_92\_D65\_00%\_OI

CIELAB-Buntonwinkel:

$h_{ab,d}=[35, 92, 143, 224, 313, 338]$

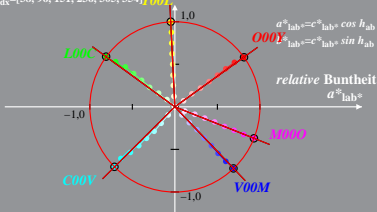
$h_{ab,dx}=[38, 96, 151, 236, 305, 354]$  **Y00L**

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

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

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

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Beziehung *adaptiertes* (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) und *relative* CIELAB ( $c^*$ ,  $l^*$ )  
 System: GG89\_FRS09\_92\_D65\_25%\_O0

CIELAB-Buntonwinkel:

$h_{ab,d}=[35, 92, 143, 224, 313, 338]$

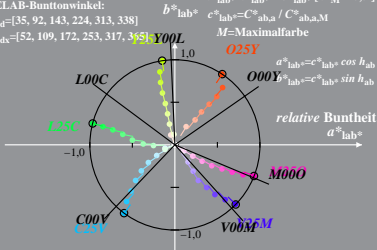
$h_{ab,dx}=[52, 109, 172, 253, 317, 365]$

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

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

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

$M$ =Maximalfarbe



Beziehung *adaptiertes* (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) und *relative* CIELAB ( $c^*$ ,  $l^*$ )  
 System: GG89\_FRS09\_92\_D65\_25%\_O1

CIELAB-Buntonwinkel:

$h_{ab,d}=[35, 92, 143, 224, 313, 338]$

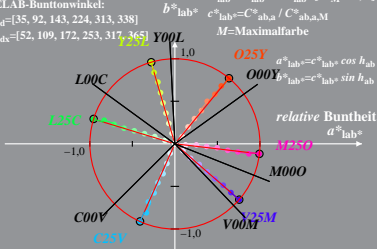
$h_{ab,dx}=[52, 109, 172, 253, 317, 365]$

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

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

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

$M$ =Maximalfarbe





Beziehung *adaptiertes* (a) CIELAB ( $C^*_{ab,20}$ ,  $L^*$ ) und *relatives* CIELAB ( $c^*$ ,  $t^*$ )  
 System: GG89\_FRS09\_92\_D65\_50%\_O1  $t^*_{ab} = -(L^*_{ref} - L^*) / (L^*_{ref} - L^*)$

**CIELAB-Bunttonwinkel:**

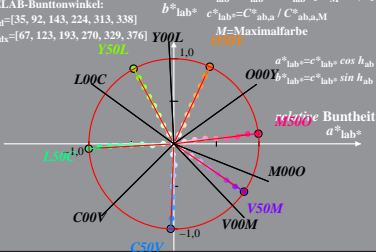
$$h_{gh,d}=[35, 92, 143, 224, 313, 338]$$
$$h_{\text{ub,dx}}=[67, 123, 193, 270, 329, 37$$

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

$$I_{\text{ah}}^* = I_{\text{ah}}^* - c_{\text{ah}}^* [I_{\text{M}}^* - 0,5]$$

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

$M$  = Maximalfarbe



GG891-4A, 6; cfl=0.70; nt=0.18; nx=1.0

Beziehung *adaptiertes* (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) und *relative* CIELAB ( $c^*$ ,  $l^*$ )  
 System: GG89\_FRS09\_92\_D65\_75%\_O0

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

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

CIELAB-Bunttonwinkel:

$$h_{ab,d} = [35, 92, 143, 224, 313, 338]$$

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

$b^*_{lab*}$

075Y

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

M=Maximalfarbe

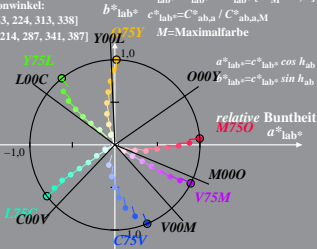
$$a^*_{lab*} = c^*_{lab*} \cos h_{ab}$$

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

relative Buntheit

M75O

$a^*_{lab*}$



Beziehung *adaptiertes* (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) und *relative* CIELAB ( $c^*$ ,  $l^*$ )  
 System: GG89\_FRS09\_92\_D65\_75%\_O1

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

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

CIELAB-Buntonwinkel:

$$h_{ab,d} = [35, 92, 143, 224, 313, 338]$$

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

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

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

**O75Y** M=Maximalfarbe

