

Beziehung CIELAB (L^* , a^* , b^*) und *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*)

System: GG87_FRS09_92_D65_00%_O0

$$l^*_{lab*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

CIELAB-Bunttonwinkel:

$$h_{ab,d} = [34, 92, 143, 226, 312, 337]$$

$$h_{ab,dx} = [38, 96, 151, 236, 305, 354] \text{ } \textcolor{yellow}{Y00L}$$

$$b^*_a$$

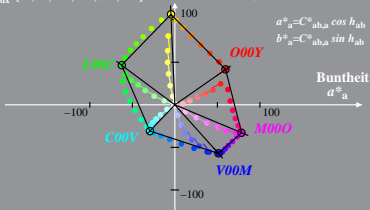
$$a^*_a = a^* - a^*_N - l^*_{lab*} [a^*_W - a^*_N]$$

$$b^*_a = b^* - b^*_N - l^*_{lab*} [b^*_W - b^*_N]$$

$$C^*_{ab,a} = [a^{*2}_a + b^{*2}_a]^{1/2}$$

$$a^*_a = C^*_{ab,a} \cos h_{ab}$$

$$b^*_a = C^*_{ab,a} \sin h_{ab}$$



GG870-4A, 1; cfl=0.95; nt=0.18; nx=1.0

Beziehung CIELAB (L^* , a^* , b^*) und *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*)

System: GG87_FRS09_92_D65_00%_O1

$$l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

$$a^*_{\bar{a}} = a^* - a^*_N - l^*_{lab^*} [a^*_W - a^*_N]$$

$$b^*_{\bar{a}} = b^* - b^*_N - l^*_{lab^*} [b^*_W - b^*_N]$$

$$C^*_{ab,a} = [a^{*2}_{\bar{a}} + b^{*2}_{\bar{a}}]^{1/2}$$

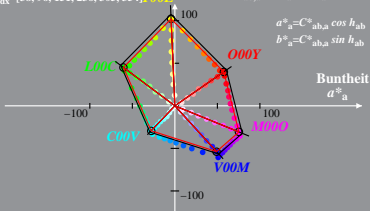
CIELAB-Bunttonwinkel:

$h_{ab,d} = [34, 92, 143, 226, 312, 337]$

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

$$a^*_{\bar{a}} = C^*_{ab,a} \cos h_{ab}$$

$$b^*_{\bar{a}} = C^*_{ab,a} \sin h_{ab}$$



Beziehung CIELAB (L^* , a^* , b^*) und *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*)

System: GG87_FRS09_92_D65_25%_O0

$$l^*_{lab*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

$$a^*_{\bar{a}} = a^* - a^*_N - l^*_{lab*} [a^*_W - a^*_N]$$

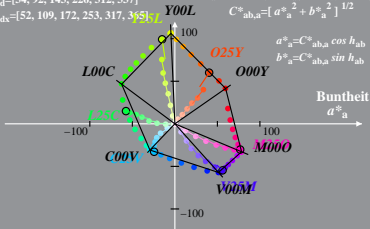
$$b^*_{\bar{a}} = b^* - b^*_N - l^*_{lab*} [b^*_W - b^*_N]$$

$$C^*_{ab,a} = [a^{*2}_{\bar{a}} + b^{*2}_{\bar{a}}]^{1/2}$$

CIELAB-Bunttonwinkel:

$$h_{ab,d} = [34, 92, 143, 226, 312, 337]$$

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



Beziehung CIELAB (L^* , a^* , b^*) und *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*)

System: GG87_FRS09_92_D65_25%_O1

$$l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

$$a^*_{\bar{a}} = a^* - a^*_N - l^*_{lab^*} [a^*_W - a^*_N]$$

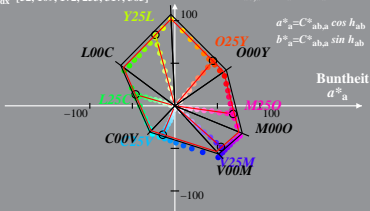
$$b^*_{\bar{a}} = b^* - b^*_N - l^*_{lab^*} [b^*_W - b^*_N]$$

$$C^*_{ab,a} = [a^{*2}_{\bar{a}} + b^{*2}_{\bar{a}}]^{1/2}$$

CIELAB-Bunttonwinkel:

$h_{ab,d} = [34, 92, 143, 226, 312, 337]$

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



Beziehung CIELAB (L^* , a^* , b^*) und *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*)

System: GG87_FRS09_92_D65_50%_O0

$$l^*_{lab*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

$$a^*_{\bar{a}} = a^* - a^*_N - l^*_{lab*} [a^*_W - a^*_N]$$

$$b^*_{\bar{a}} = b^* - b^*_N - l^*_{lab*} [b^*_W - b^*_N]$$

$$C^*_{ab,a} = [a^{*2}_{\bar{a}} + b^{*2}_{\bar{a}}]^{1/2}$$

CIELAB-Bunttonwinkel:

$h_{ab,d} = [34, 92, 143, 226, 312, 337]$

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

Y00L

Q50Y

Y50L

L00C

O00Y

$$a^*_{\bar{a}} = C^*_{ab,a} \cos h_{ab}$$

$$b^*_{\bar{a}} = C^*_{ab,a} \sin h_{ab}$$

Buntheit

$a^*_{\bar{a}}$

-100

L50C

C00V

C50V

M500

M00O

V50M

V00M

-100

Beziehung CIELAB (L^* , a^* , b^*) und *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*)

System: GG87_FRS09_92_D65_50%_O1

$$l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

$$a^*_{\bar{a}} = a^* - a^*_N - l^*_{lab^*} [a^*_W - a^*_N]$$

$$b^*_{\bar{a}} = b^* - b^*_N - l^*_{lab^*} [b^*_W - b^*_N]$$

$$C^*_{ab,a} = [a^{*2}_{\bar{a}} + b^{*2}_{\bar{a}}]^{1/2}$$

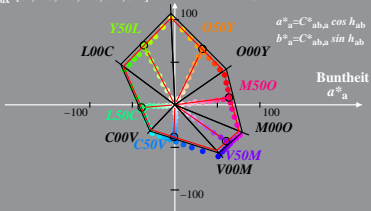
CIELAB-Bunttonwinkel:

$h_{ab,d} = [34, 92, 143, 226, 312, 337]$

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

$$a^*_{\bar{a}} = C^*_{ab,a} \cos h_{ab}$$

$$b^*_{\bar{a}} = C^*_{ab,a} \sin h_{ab}$$



Beziehung CIELAB (L^* , a^* , b^*) und *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*)

System: GG87_FRS09_92_D65_75%_O0

$$l^*_{lab*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

$$a^*_{\bar{a}} = a^* - a^*_N - l^*_{lab*} [a^*_W - a^*_N]$$

$$b^*_{\bar{a}} = b^* - b^*_N - l^*_{lab*} [b^*_W - b^*_N]$$

CIELAB-Bunttonwinkel:

$$h_{ab,d} = [34, 92, 143, 226, 312, 337]$$

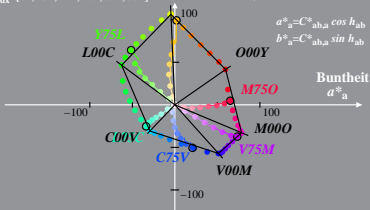
$$h_{ab,dx} = [81, 137, 214, 287, 341, 387]$$

Y00L

$$C^*_{ab,a} = [a^{*2}_{\bar{a}} + b^{*2}_{\bar{a}}]^{1/2}$$

$$a^*_{\bar{a}} = C^*_{ab,a} \cos h_{ab}$$

$$b^*_{\bar{a}} = C^*_{ab,a} \sin h_{ab}$$



Beziehung CIELAB (L^* , a^* , b^*) und *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*)

System: GG87_FRS09_92_D65_75%_O1

$$l^*_{lab*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

$$a^*_{\bar{a}} = a^* - a^*_N - l^*_{lab*} [a^*_W - a^*_N]$$

$$b^*_{\bar{a}} = b^* - b^*_N - l^*_{lab*} [b^*_W - b^*_N]$$

$$C^*_{ab,a} = [a^{*2}_{\bar{a}} + b^{*2}_{\bar{a}}]^{1/2}$$

CIELAB-Bunttonwinkel:

$h_{ab,d} = [34, 92, 143, 226, 312, 337]$

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

$b^*_{\bar{a}}$

$Y00L$

$Q75Y$

$L00C$

$O00Y$

$M75O$

Buntheit

$a^*_{\bar{a}}$

$$a^*_{\bar{a}} = C^*_{ab,a} \cos h_{ab}$$

$$b^*_{\bar{a}} = C^*_{ab,a} \sin h_{ab}$$

