

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

System: JG29\_sRGB display 0%\_G0

CIELAB-Buntonwinkel:

$h_{ab,d}=[40, 102, 136, 196, 306, 328]$

$h_{ab,dx}=[40, 102, 136, 196, 306, 328]$

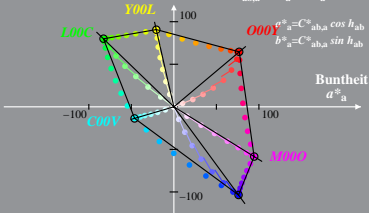
$$l^*_{lab^*}=(L^* - L^*_N) / (L^*_W - L^*_N)$$

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

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

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

$$\begin{aligned} a^*_{a} &= C^*_{ab,a} \cos h_{ab} \\ b^*_{a} &= C^*_{ab,a} \sin h_{ab} \end{aligned}$$



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

System: JG29\_sRGB display 0,6%\_G0

CIELAB-Buntonwinkel:

$h_{ab,d}=[38, 102, 136, 196, 305, 328]$

$h_{ab,dx}=[38, 102, 136, 196, 305, 328]$

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

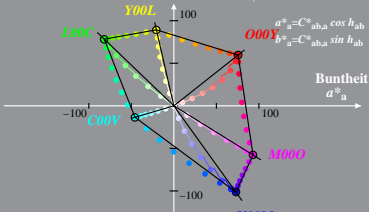
$$a^*_{a} = a^* - a^*_N - l^*_{lab^*} [a^*_W - a^*_N]$$

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

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

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

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



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

System: JG29\_sRGB display 1,3%\_G0

CIELAB-Buntonwinkel:

$h_{ab,d}=[36, 103, 136, 196, 305, 328]$

$h_{ab,dx}=[36, 103, 136, 196, 305, 328]$

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

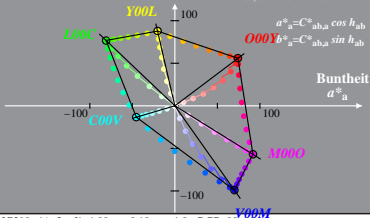
$$a^*_{a^*}=a^* - a^*_N - l^*_{lab^*} [ a^*_W - a^*_N ]$$

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

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

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

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



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

System: JG29\_sRGB display 2,5%\_G0

CIELAB-Buntonwinkel:

$h_{ab,d}=[34, 103, 136, 196, 304, 328]$

$h_{ab,dx}=[34, 103, 136, 196, 304, 328]$

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

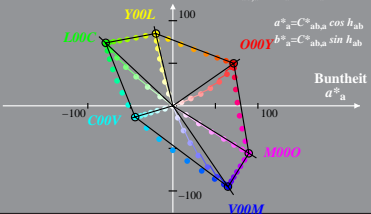
$$a^*_{\tilde{a}}=a^* - a^*_N - l^*_{lab^*} [ a^*_W - a^*_N ]$$

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

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

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

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



Beziehung CIELAB ( $L^*$ ,  $a^*$ ,  $b^*$ ) und *adaptiertes* (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ )  
 System: JG29\_sRGB display 5%\_G0

CIELAB-Buntonwinkel:

$h_{ab,d}=[31, 103, 137, 196, 302, 327]$

$h_{ab,dx}=[31, 103, 137, 196, 302, 327]$

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

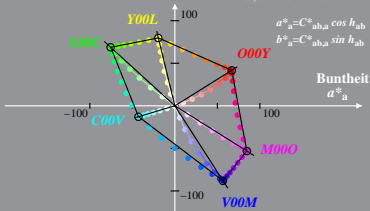
$$a^*_{\text{a}}=a^* - a^*_N - l^*_{lab^*} [ a^*_W - a^*_N ]$$

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

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

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

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



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

System: JG29\_sRGB display 10%\_G0

CIELAB-Buntonwinkel:

$h_{ab,d}=[28, 104, 138, 196, 300, 327]$

$h_{ab,dx}=[28, 104, 138, 196, 300, 327]$

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

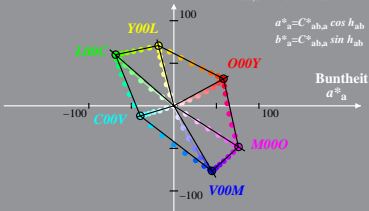
$$a^*_{a^*}=a^* - a^*_N - l^*_{lab^*} [ a^*_W - a^*_N ]$$

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

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

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

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



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

System: JG29\_sRGB display 20%\_G0

CIELAB-Buntonwinkel:

$h_{ab,d}=[24, 105, 140, 197, 297, 327]$

$h_{ab,dx}=[24, 105, 140, 197, 297, 327]$

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

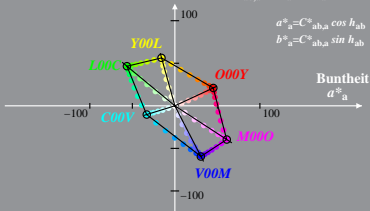
$$a^*_{a}=a^* - a^*_N - l^*_{lab^*} [ a^*_W - a^*_N ]$$

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

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

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

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



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

System: JG29\_sRGB display 40%\_G0

CIELAB-Buntonwinkel:

$h_{ab,d}=[21, 107, 142, 197, 293, 326]$

$h_{ab,dx}=[21, 107, 142, 197, 293, 326]$

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

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

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

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

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

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

