

Beziehung *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*) und *relative* CIELAB (c^* , l^*)
 System: HG89_FRS09_92_D65_00%_O0

CIELAB-Bunttonwinkel:

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

$h_{ab,ex}=[26, 92, 162, 217, 272, 329]$

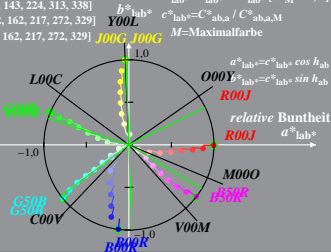
$h_{ab,e}=[26, 92, 162, 217, 272, 329]$

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

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

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

M=Maximalfarbe



Beziehung *adaptiertes (a)* CIELAB (C^*_{ab})
System: HG89_FRS09_92_D65_00%_01

CIELAB-Bunttonwinkel:

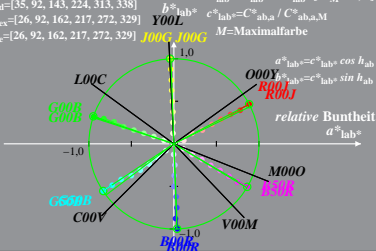
$$h_{gh,d}=[35, 92, 143, 224, 313, 338]$$
$$h_{ab,ex}=[26, 92, 162, 217, 272, 329]$$
$$h_{abc}=[26, 92, 162, 217, 272, 329]$$

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

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

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

M = Maximalfarbe



Beziehung *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*) und *relative* CIELAB (c^* , l^*)
 System: HG89_FRS09_92_D65_25%_O0

CIELAB-Bunttonwinkel:

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

$h_{ab,ex}=[42, 109, 175, 230, 286, 343]$

$h_{ab,e}=[26, 92, 162, 217, 272, 329]$

$b^*_{lab^*}$
 Y00L

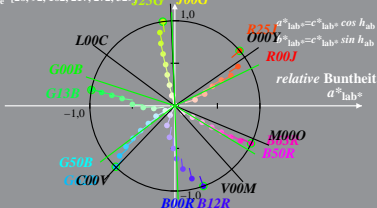
J25G J00G

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

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

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

M=Maximalfarbe



Beziehung *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*) und *relative* CIELAB (c^* , t^*)
 System: HG89_FRS09_92_D65_25%_OI

CIELAB-Bunttonwinkel:

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

$h_{ab,ex}=[42, 109, 175, 230, 286, 343]$

$h_{ab,e}=[26, 92, 162, 217, 272, 329]$

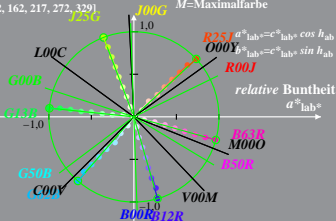
$b^*_{lab^*}$
Y00L

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

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

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

M=Maximalfarbe



Beziehung *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*) und *relative* CIELAB (c^* , l^*)
 System: HG89_FRS09_92_D65_50%_O0

CIELAB-Bunttonwinkel:

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

$h_{ab,ex}=[59, 127, 189, 244, 300, 357]$

$h_{ab,e}=[26, 92, 162, 217, 272, 329]$

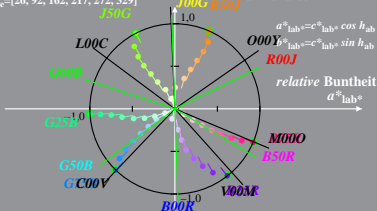
$b^*_{lab^*}$
 $Y00L$

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

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

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

M=Maximalfarbe



Beziehung *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*) und *relative* CIELAB (c^* , l^*)
 System: HG89_FRS09_92_D65_50%_OI

CIELAB-Bunttonwinkel:

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

$h_{ab,ex}=[59, 127, 189, 244, 300, 357]$

$h_{ab,e}=[26, 92, 162, 217, 272, 329]$

b^*_{lab}
 $Y00L$

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

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

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

M =Maximalfarbe

$J00G$

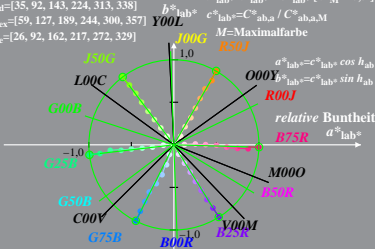
$R50J$

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

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

relative Buntheit

a^*_{lab}



Beziehung *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*) und *relative* CIELAB (c^* , t^*)
 System: HG89_FRS09_92_D65_75%_O0

CIELAB-Bunttonwinkel:

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

$h_{ab,ex}=[75, 144, 203, 258, 314, 371]$

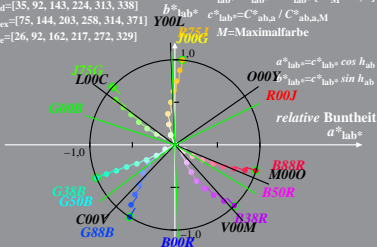
$h_{ab,e}=[26, 92, 162, 217, 272, 329]$

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

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

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

M=Maximalfarbe



Beziehung *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*) und *relative* CIELAB (c^* , l^*)
 System: HG89_FRS09_92_D65_75%_OI

CIELAB-Bunttonwinkel:

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

$h_{ab,ex}=[75, 144, 203, 258, 314, 371]$

$h_{ab,e}=[26, 92, 162, 217, 272, 329]$

$b^*_{lab^*}$
 $Y00L$

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

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

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

$M=$ Maximalfarbe

