

Adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*_{lab*}$ ,  $l^*_{lab*}$ )  
 LE47\_LCD projector\_1 0%\_Fadin

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

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

CIELAB hue angles:

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

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

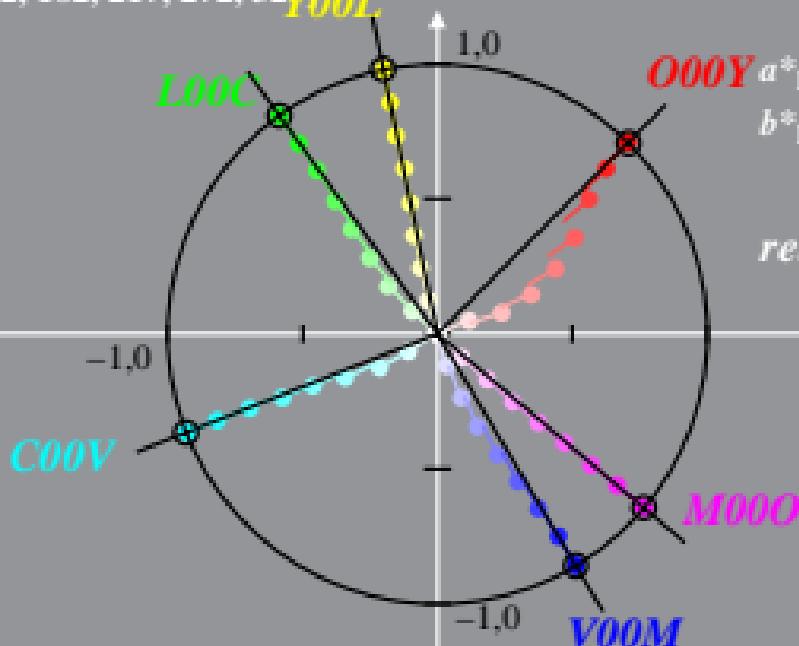
$b^*_{lab*}$   $M$ =Maximum colour

Y00L

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

relative chroma

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



Adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*_{lab*}$ ,  $l^*_{lab*}$ )  
LE47\_LCD projector\_1 0%\_Fadit

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

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

CIELAB hue angles:

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

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

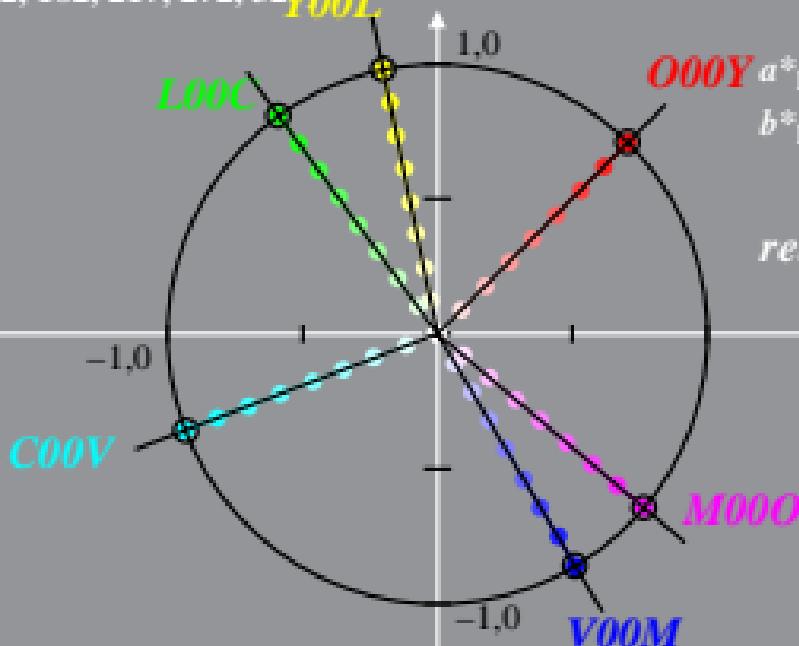
$b^*_{lab*}$  M=Maximum colour

Y00L

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

relative chroma

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



Adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*_{lab*}$ ,  $l^*_{lab*}$ )  
LE47\_LCD projector\_1 0,6%\_Fadin

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

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

CIELAB hue angles:

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

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

$b^*_{lab*}$  M=Maximum colour

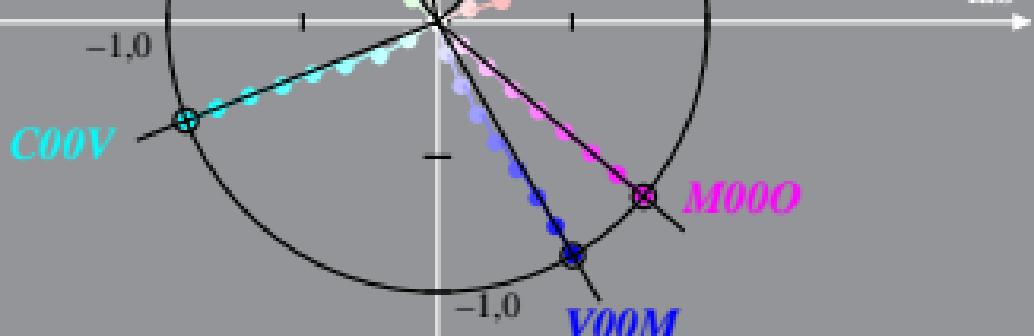
Y00L

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

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

relative chroma

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



Adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*_{lab*}$ ,  $l^*_{lab*}$ )  
LE47\_LCD projector\_1 0,6%\_Fadit

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

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

CIELAB hue angles:

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

$$b^*_{lab*} \quad M = \text{Maximum colour}$$

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

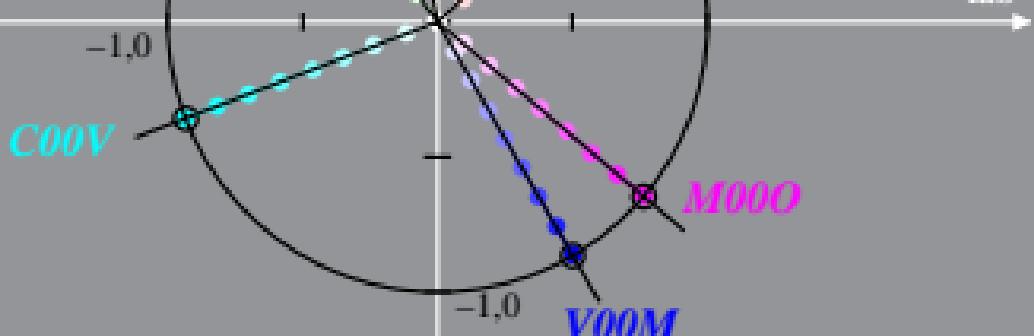
*Y00L*

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

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

relative chroma

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



Adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*_{lab*}$ ,  $l^*_{lab*}$ )  
 LE47\_LCD projector\_1 1,2%\_Fadin

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

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

CIELAB hue angles:

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

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

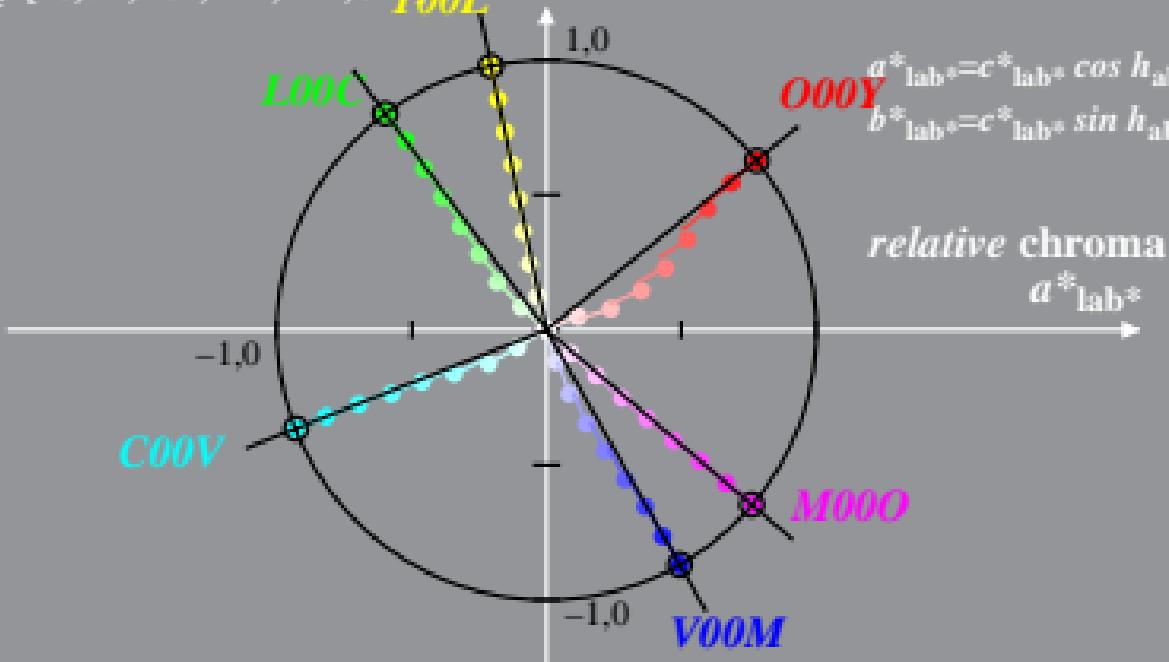
$b^*_{lab*}$   $M$ =Maximum colour

$Y00L$

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

relative chroma

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



Adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*_{lab*}$ ,  $l^*_{lab*}$ )  
 LE47\_LCD projector\_1 1,2%\_Fadit

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

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

CIELAB hue angles:

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

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

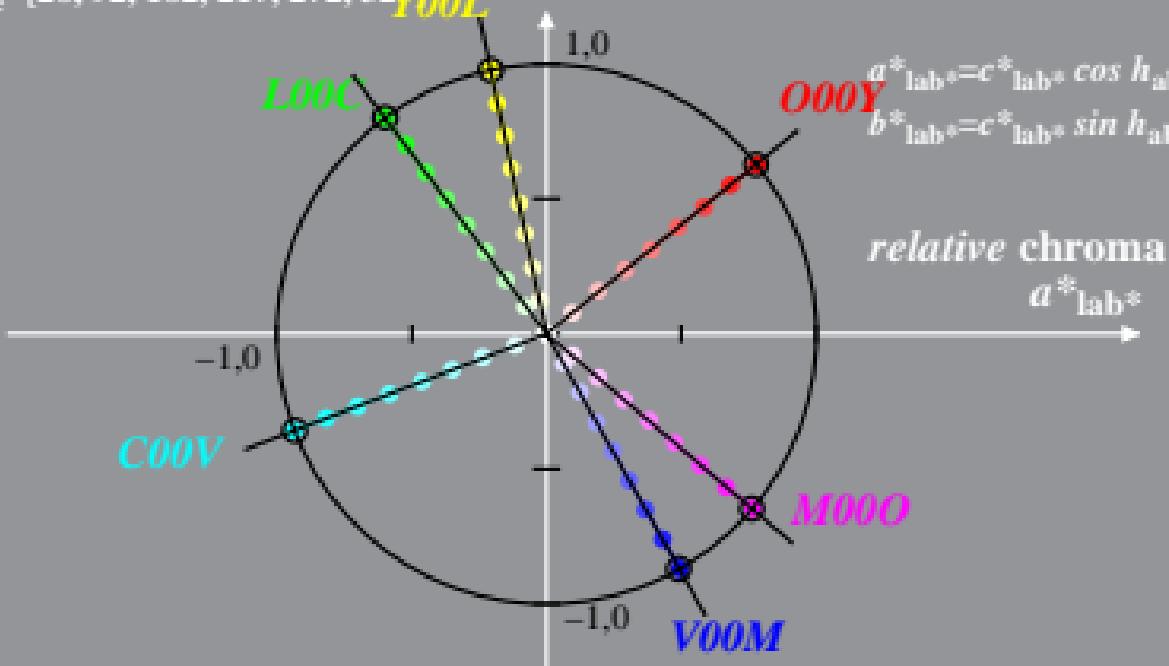
$b^*_{lab*}$   $M$ =Maximum colour

$Y00L$

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

relative chroma

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



Adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*_{lab*}$ ,  $l^*_{lab*}$ )  
 LE47\_LCD projector\_1 2,5%\_Fadin

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

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

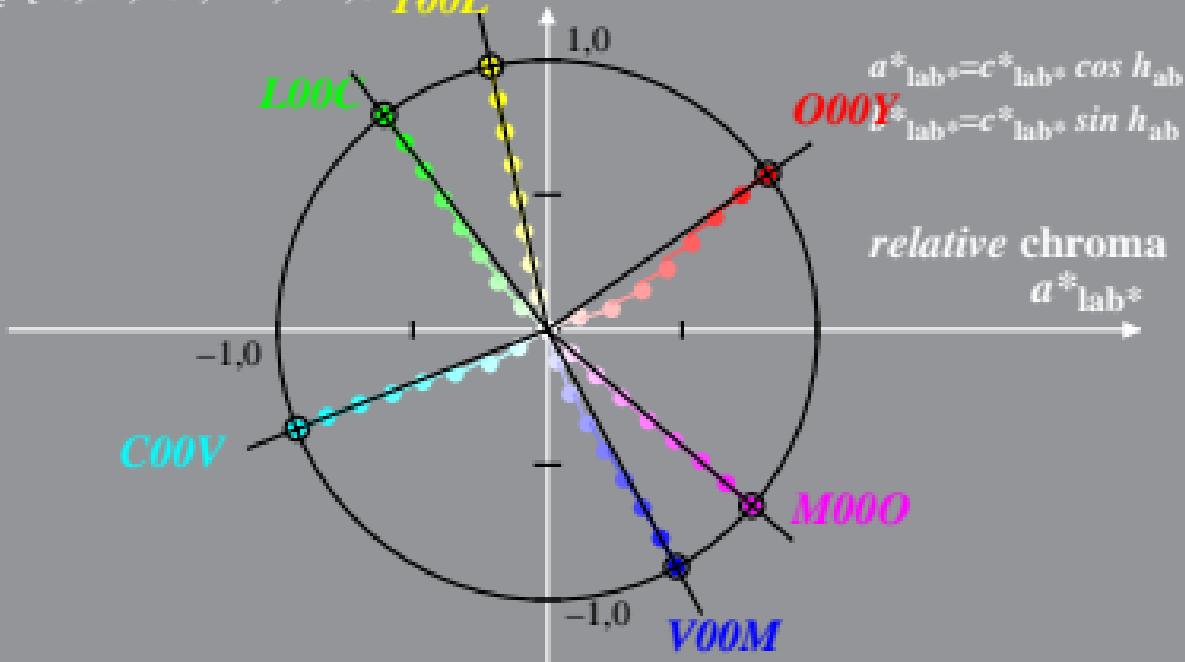
CIELAB hue angles:

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

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

$b^*_{lab*}$   $M$ =Maximum colour

*Y00L*



Adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*_{lab*}$ ,  $l^*_{lab*}$ )  
 LE47\_LCD projector\_1 2,5%\_Fadit

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

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

CIELAB hue angles:

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

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

$b^*_{lab*}$   $M$ =Maximum colour

**Y00L**

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

**O00Y**

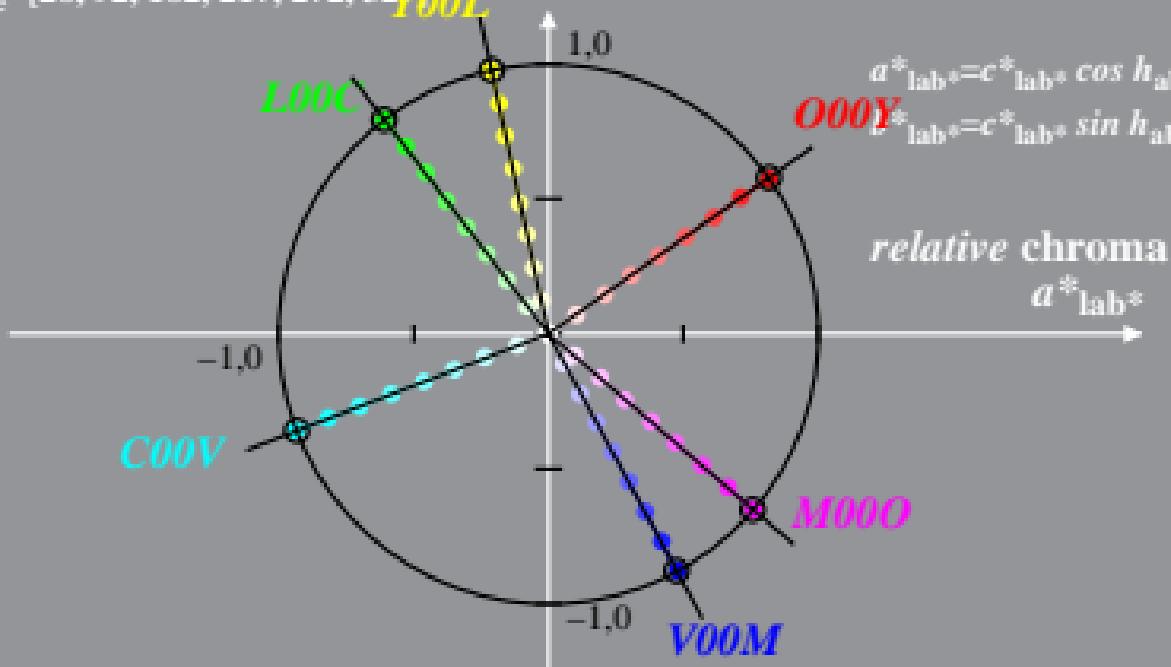
$$Y^*_{lab*} = c^*_{lab*} \sin h_{ab}$$

relative chroma

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

**M000**

**V00M**



Adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*_{lab*}$ ,  $l^*_{lab*}$ )  
 LE47\_LCD projector\_1 5%\_Fadin

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

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

CIELAB hue angles:

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

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

$b^*_{lab*}$   $M$ =Maximum colour

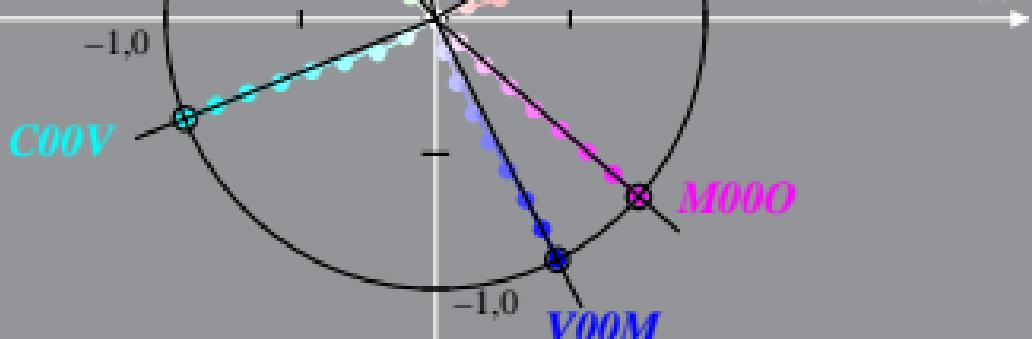
$Y00L$

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

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

relative chroma

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



Adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*_{lab*}$ ,  $l^*_{lab*}$ )  
 LE47\_LCD projector\_1 5%\_Fadit

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

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

CIELAB hue angles:

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

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

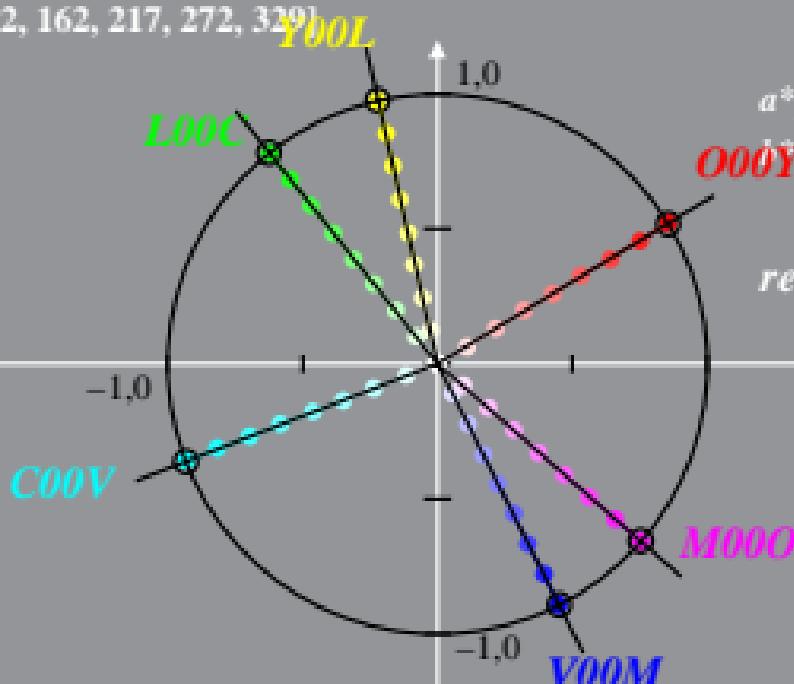
$b^*_{lab*}$   $M$ =Maximum colour

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

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

relative chroma

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



Adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*_{lab*}$ ,  $l^*_{lab*}$ )  
 LE47\_LCD projector\_1 10%\_Fadin

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

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

CIELAB hue angles:

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

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

$$b^*_{lab*} \quad M = \text{Maximum colour}$$

**Y00L**

**L00C**

**O00Y**

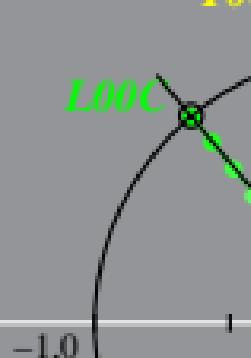
relative chroma

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

**C00V**

**M000**

**V00M**



Adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*_{lab*}$ ,  $l^*_{lab*}$ )  
LE47\_LCD projector\_1 10%\_Fadit

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

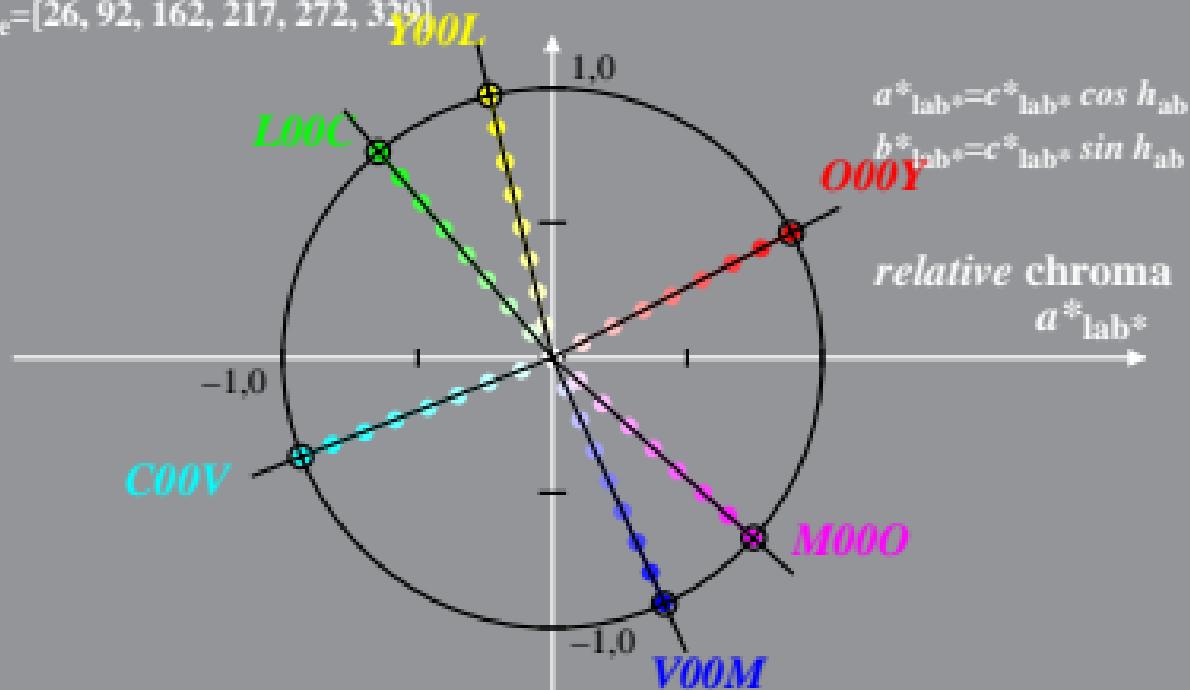
$$c^*_{lab*} = C^*_{ab,a} / C^*_{ab,a,M}$$

CIELAB hue angles:

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

$$b^*_{lab*} \quad M = \text{Maximum colour}$$

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



Adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*_{lab*}$ ,  $l^*_{lab*}$ )  
 LE47\_LCD projector\_1 20%\_Fadin

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

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

CIELAB hue angles:

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

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

$b^*_{lab*}$   $M$ =Maximum colour

*Y00L*

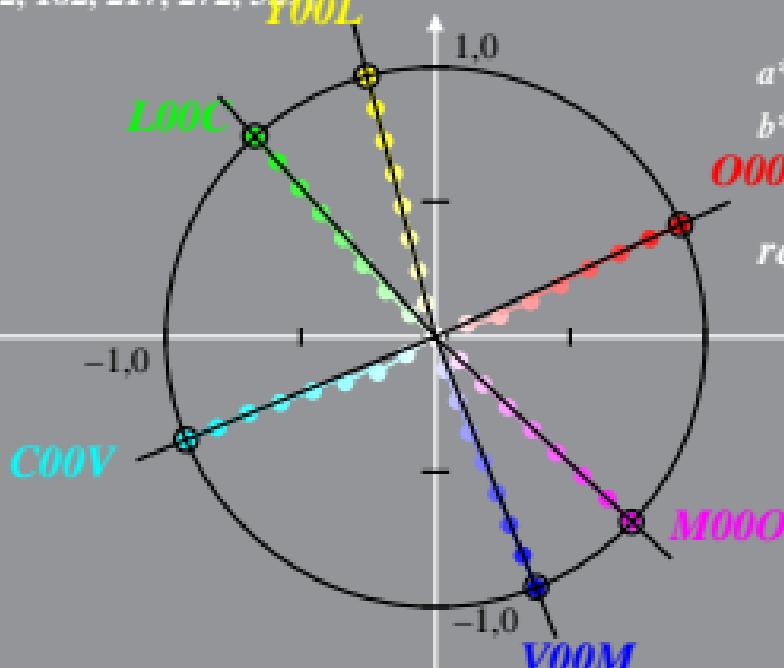
$$a^*_{lab*} = c^*_{lab*} \cos h_{ab}$$

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

*O00Y*

relative chroma

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



Adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*_{lab*}$ ,  $I^*_{lab*}$ )  
 LE47\_LCD projector\_1 20%\_Fadit

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

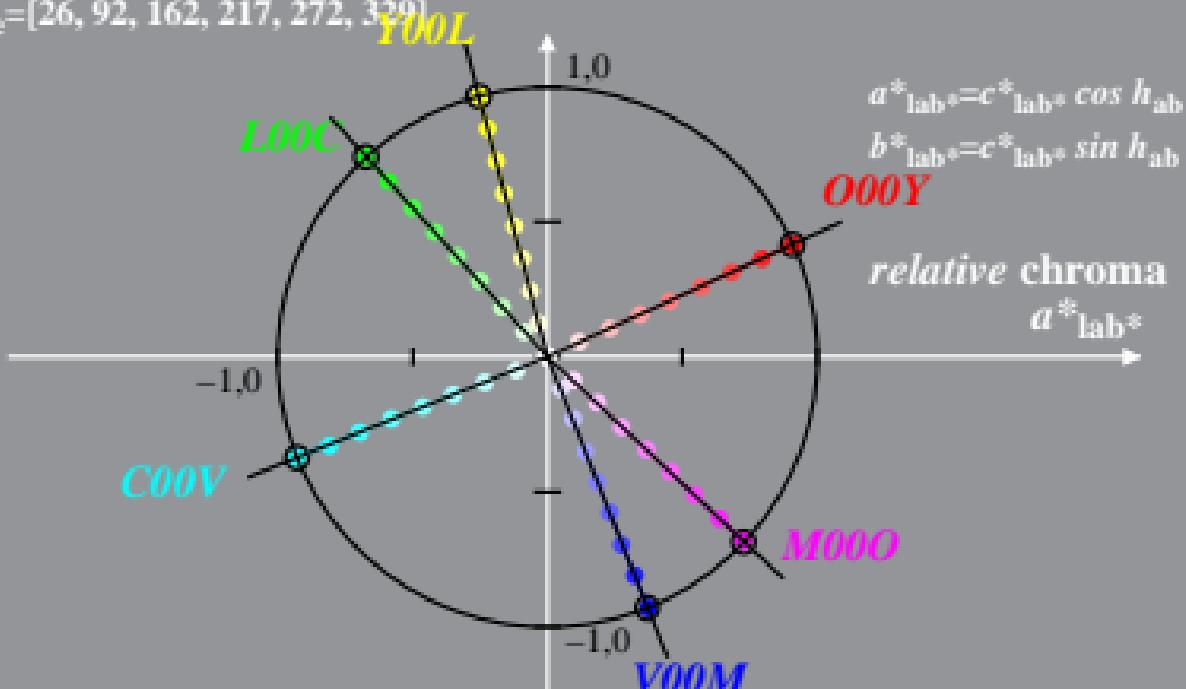
$$c^*_{lab*} = C^*_{ab,a} / C^*_{ab,a,M}$$

CIELAB hue angles:

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

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

$$b^*_{lab*} \quad M = \text{Maximum colour}$$



Adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*_{lab*}$ ,  $l^*_{lab*}$ )  
 LE47\_LCD projector\_1 40%\_Fadin

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

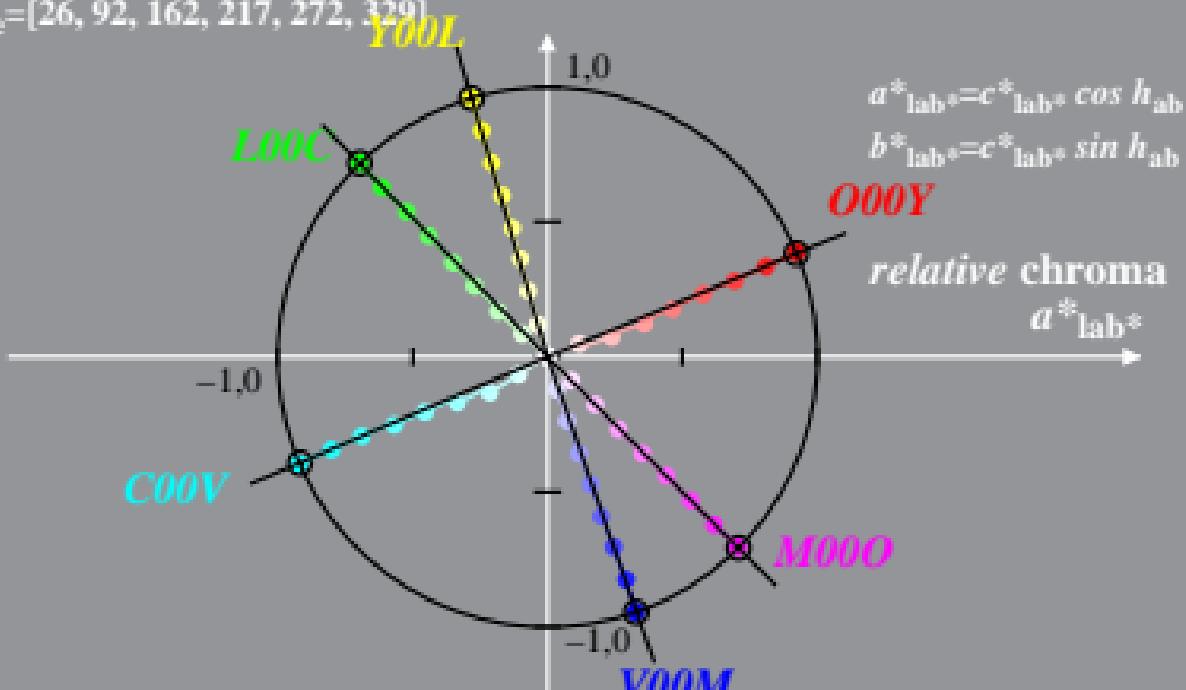
$$c^*_{lab*} = C^*_{ab,a} / C^*_{ab,a,M}$$

CIELAB hue angles:

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

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

$$b^*_{lab*} \quad M = \text{Maximum colour}$$



Adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*_{lab*}$ ,  $I^*_{lab*}$ )  
 LE47\_LCD projector\_1 40%\_Fadit

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

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

CIELAB hue angles:

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

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

$$b^*_{lab*} \quad M = \text{Maximum colour}$$

*Y00L*

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

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

*O00Y*

relative chroma

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

