

Linear relation CIELAB (L^* , a^* , b^*) and adapted (a) CIELAB ($C^*_{ab,a}$, L^*)
 System: HE96_HRS16_96_D65_00%_O0

CIELAB hue angles:

$h_{ab,d}=[32, 99, 151, 227, 296, 348]$

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

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

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

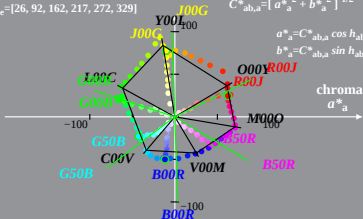
$$a^*_a=a^*-a^*_N-I^*_{lab*}[a^*_W-a^*_N]$$

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

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

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

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



Linear relation CIELAB (L^* , a^* , b^*) and adapted (a) CIELAB ($C^*_{ab,a}$, L^*)

System: HE96_HRS16_96_D65_00%_O1

CIELAB hue angles:

$h_{ab,d} = [32, 99, 151, 227, 296, 348]$

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

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

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

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

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

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

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

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

