

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

System: GE90_HRS16_96_D65_00%_G0

CIELAB hue angles:

$h_{ab,d}=[32, 100, 145, 206, 265, 348]$

$h_{ab,dx}=[33, 100, 143, 208, 263, 351]$

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

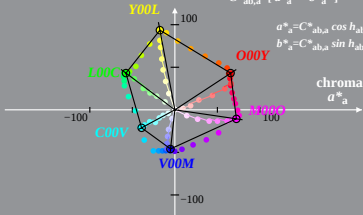
$$a^*_{*a}=a^*-a^*_N-I^*_{lab*}[a^*_W-a^*_N]$$

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

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

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

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



GE900-4A, 1; cf1=0.90; nt=0.18; nx=1.0

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

System: GE90_HRS16_96_D65_00%_G1 $I^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$

CIELAB hue angles:

$h_{ab,d} = [32, 100, 145, 206, 265, 348]$

$h_{ab,dx} = [32, 100, 145, 206, 265, 348]$

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

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

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

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

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

