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

**System: SI42_HRS27_96_D65_00%_G0**

**CIELAB hue angles:**

$h_{ab,d}$=[33, 98, 150, 227, 301, 350]

$h_{ab,dx}$=[34, 99, 149, 227, 301, 351]

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

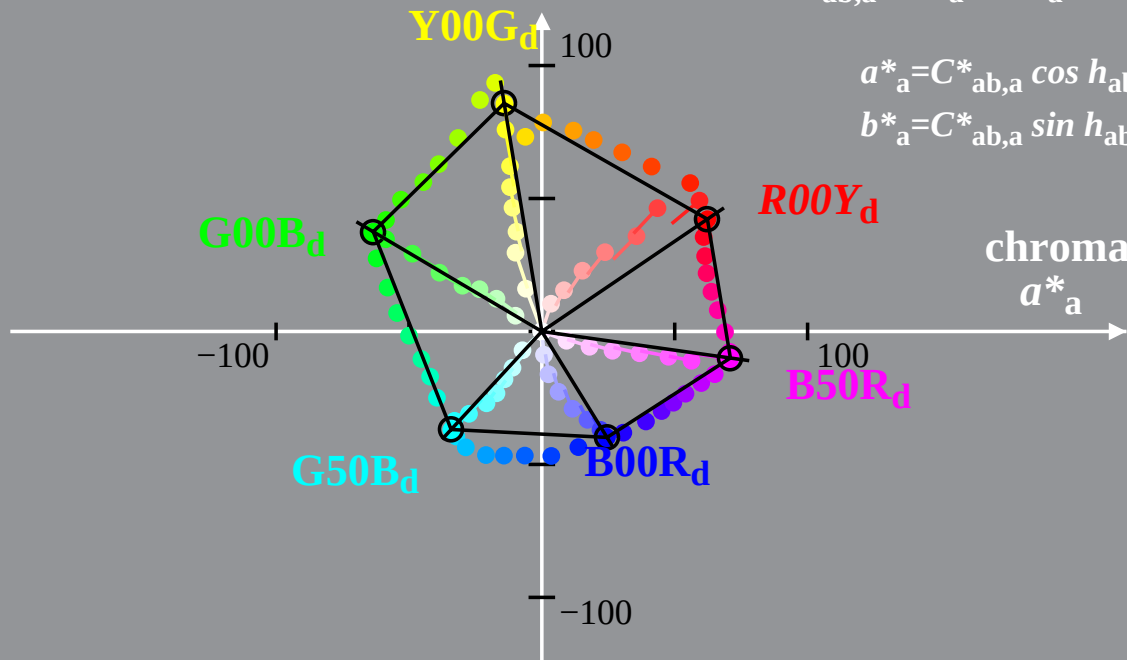
$$a^*_a=a^* - a^*_N - l^* [ a^*_W - a^*_N ]$$

$$b^*_a=b^* - b^*_N - l^* [ b^*_W - b^*_N ]$$

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

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

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




SI420−4A, 1; cf1=0.95; nt=0.18; nx=1.0

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

**System: SI42_HRS27_96_D65_00%_G1**

**CIELAB hue angles:**

$h_{ab,d}$=[33, 98, 150, 227, 301, 350]

$h_{ab,dx}$=[33, 98, 150, 227, 301, 350]

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

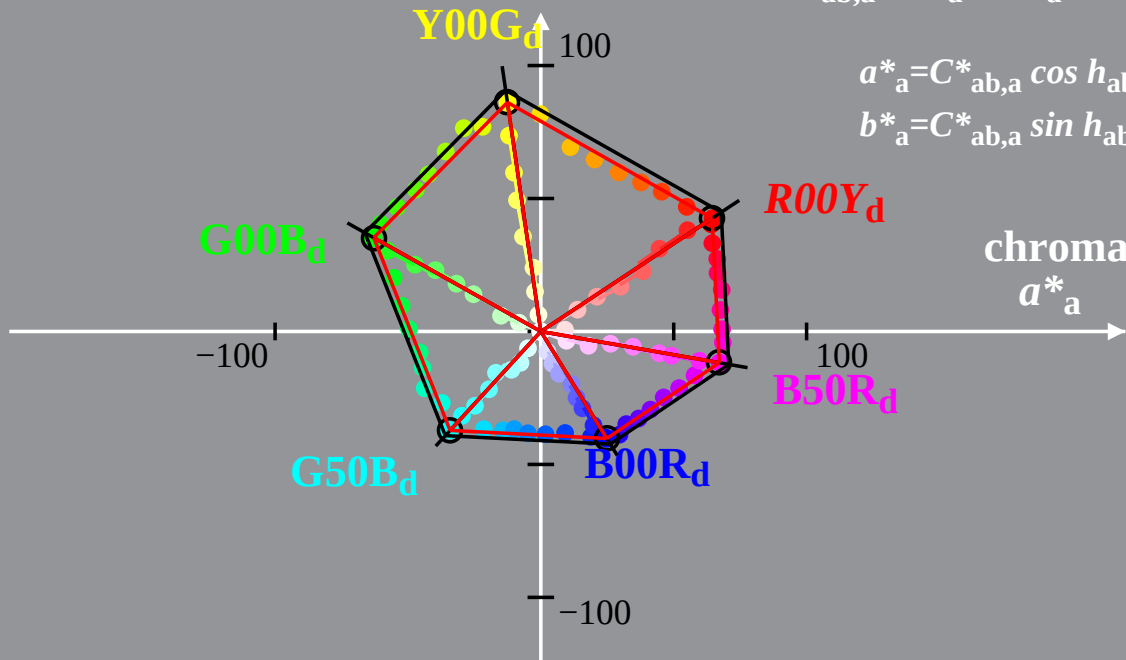
$$a^*_a=a^* - a^*_N - l^* [ a^*_W - a^*_N ]$$

$$b^*_a=b^* - b^*_N - l^* [ b^*_W - b^*_N ]$$

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

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

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




SI420−4A, 2; cf1=0.95; nt=0.18; nx=1.0