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

System: Laser printer

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

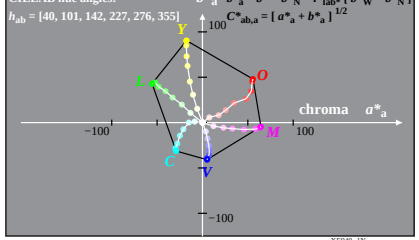
$a^*_a = a^* - a^*_N - l^*_{lab*} [ a^*_W - a^*_N ]$

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

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

CIELAB hue angles:

$h_{ab}$ = [40, 101, 142, 227, 276, 355]




XE940−1N

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

System: Laser printer

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

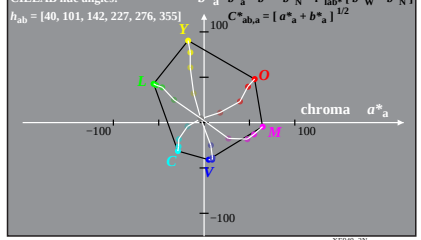
$a^*_a = a^* - a^*_N - l^*_{lab*} [ a^*_W - a^*_N ]$

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

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

CIELAB hue angles:

$h_{ab}$ = [40, 101, 142, 227, 276, 355]




XE940−2N

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

System: Laser printer

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

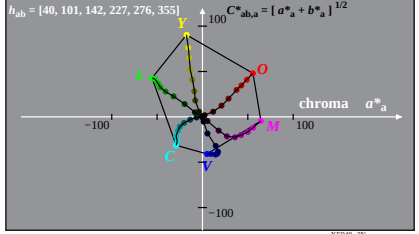
$a^*_a = a^* - a^*_N - l^*_{lab*} [ a^*_W - a^*_N ]$

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

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

CIELAB hue angles:

$h_{ab}$ = [40, 101, 142, 227, 276, 355]




XE940−3N

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

System: Laser printer

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

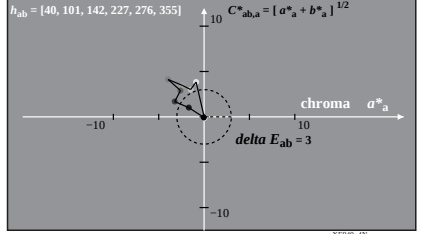
$a^*_a = a^* - a^*_N - l^*_{lab*} [ a^*_W - a^*_N ]$

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

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

CIELAB hue angles:

$h_{ab}$ = [40, 101, 142, 227, 276, 355]




XE940−4N