

## 8 Device (d) colours $rgb_d^* = olv^*$ in CIELAB: OYLCVM and NW

Hexagon-triangle system based on device (d) colours:  $cm\mathbf{y}_d^* = 1 - olv^*$   
with **linear relations** between  $cm\mathbf{y}_d \rightarrow cm\mathbf{y}^*$  and  $LCH^*$

(compare linear relations between  $rgb_{sRGB}$  and  $L^*$ )

Equations  $cmy^* - LCH^*$  in both directions have been published, see:  
*Richter, CIE-Proceedings, Beijing, 2008, Volume 3 und DIN 33872-1*

Three equations (tables) are needed for office applications:

$cm\mathbf{y}_d = LCH^*$ , for a 9x9x9 grid of equally spaced  $cm\mathbf{y}_d$ -input data

$cmv^* - LCH^*$  a 9x9x9 grid of equally spaced data  $cmv^*$  and  $LCH^*$

*$cmy'^* - LCH^*$  Device output linearisation by  $cmy_d \rightarrow cmy'^*$*

