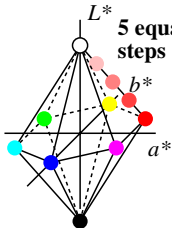# 8 Device (d) colours *rgb*$_d^*$=*olv** in CIELAB: *OYLCVM* and *NW*

Hexagon-triangle system based on device (d) colours: *rgb*$_d^*$=*olv**
with **linear relations** between *rgb*$_d$ –> *olv** and *LCH**
(compare linear relations between rgb$_{sRGB}$ *and L*)*

*L**

5 equal steps

*b**

*a**

Equations *olv** – *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:

rgb$_d$ – *LCH*'*   for a 9x9x9 grid of equally spaced *rgb*$_d$-input data

*olv** – *LCH**   a 9x9x9 grid of equally spaced data *olv** and *LCH**

olv'– *LCH**   *Device output linearisation by rgb*$_d$ –> *olv'**

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