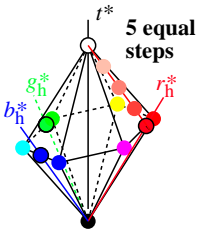# 6 Elementary (e) colours rgb*$_d$=rgb* in CIELAB: RJGB and NW

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

5 equal steps

Equations rgb*$_h$ – 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*' output a 9x9x9 grid of equally spaced rgb_d-input data

rgb*$_h$ – LCH* a 9x9x9 grid of equally spaced data rgb*$_h$ and LCH*

rgb'*$_h$ – LCH* *Device output linearisation by rgb_d –> rgb'*$_h$*

KE281-5N