

$\log(\Delta Y/Y)$

CIE Y-based contrast

$$C_r = (\Delta Y/Y)$$

$$L^*_{85,2} = (t/a) \ln(1 + a \cdot Y)$$

$$a = 0,3411 \quad t = 88,23 \quad t/a = 258,6$$

tristimulus value Y contrast

$$\log(dY/Y) = \log[(1 + a \cdot Y) / (t \cdot Y)]$$

-1

0,1

-2

0,01

$$\log(dY/Y) = -2,34, m_u = -0,13$$

$$Y_u = 18, dY_u = 0,08, dY_u/Y_u = 0,004$$

application  
range

-3

0,1

1

10

$Y_u = 18$  100 Y

-2

-1

0

1

2

$\log(Y)$