

$\log(\Delta Y/Y)$

CIE Y based contrast

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

$$L^* = (A_0/A_2) \ln(A_1 + A_2 \cdot Y)$$

$$A_0 = 1.0 \quad A_1 = 0.017 \quad A_2 = 0.0058$$

relative tristimulus value Y contrast

$$\log(dY/Y) = \log[(A_1 + A_2 \cdot Y) / (A_0 \cdot Y)]$$

-1

0,1

-2

0,01

$$\log(dY/Y) = -2.17, m_u = -0.13$$

$$Y_u = 18, dY_u = 0.12, dY_u/Y_u = 0.006$$

application
range

-3

0,1

1

10

$Y_u = 18$ 100

Y

-2

-1

0

1

2

$\log(Y)$