

$$\log[(Y/\Delta Y) / (Y/\Delta Y)_u]$$

CIE Y contrast  
normalized to  $(Y/\Delta Y)_u$

$C_r/C_{ru} = (Y/\Delta Y)/(Y/\Delta Y)_u$  LABJND & CIELAB  
normalized Y contrast according to CIELAB

$$\log[(Y/dY)/(Y/dY)_u] = (1/3) \log(Y/dY_u)$$

$$L^*_u = 50, Y_u = 18, dY_u = 0,83$$

1 10

$$L^*_u = 50, Y_u = 18, dY_u = 0,83, (Y/dY_u) = 22$$

$$\log[(Y/dY)_u / (Y/dY)_u] = 0, m_u = 0,33$$

$m_{u+} =$

0,13

0 1

application  
range

$m_{u-} = 0,14$

0,1

1

10

$Y_u = 18$  100 Y

-1 -2

-1

0

1

2

log Y