

**functions  $q[k(u - u_0)]$**

**„achromatic signal”-description**

with  $u = \log L$  ( $L$  = luminance)

$u_0 = \log L_u$  ( $L_u$  = surround luminance)

$$q[k(u - u_0)] = 1 + 1/[1 + \sqrt{2}e^{k(u - u_0)}]$$

**function values:**

$$q[k(u - u_0) \rightarrow +\infty] = 1$$

$$q[k(u - u_0) = 0] = \sqrt{2}$$

$$q[k(u - u_0) \rightarrow -\infty] = 2$$