

$(\Delta Y/Y) / (\Delta Y/Y)_u$

HAULAB-Y sensitivity
normalized to $(\Delta Y/Y)_u$

$$S_r/S_{ru} = (\Delta Y/Y) / (\Delta Y/Y)_u$$

$$L^* = s(Y/Y_u)^n - d \quad (Y_n=100, Y_u=23, s=153,7, n=0,31, d=47,9) \quad [1a]$$

$$L^* = r(Y/Y_u)^n - d \quad (r = s(Y_u/Y_n)^n = 90,34, L^*_u = r - d = 42,3) \quad [1b]$$

6

4

2

0

Y_curve, ij=30, Yuij=23, L*uij=50

k=99, Ykij=100, L*kij=103,8, $(\Delta Y/Y) / (\Delta Y/Y)_u = 0,63$

k=23, Ykij=24, L*kij=55,7, $(\Delta Y/Y) / (\Delta Y/Y)_u = 0,99$

k=1, Ykij=2, L*kij=9,3, $(\Delta Y/Y) / (\Delta Y/Y)_u = 2,14$

k=0, Ykij=1, L*kij=1,5, $(\Delta Y/Y) / (\Delta Y/Y)_u = 2,65$

$\varphi=30'$

$L_{aw} = 200 \text{ cd/m}^2$

application
range

$m_{u90_4} = -0,000, f_{90}=0, f_4=0$

$m_u = -0,678$

0,1

1

10

$Y_u=18$
 $Y_u=23$

100

0,637

0,386

log Y