

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

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

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

$$L^* = s(Y/Y_u)^n - d \quad (Y_n=100, Y_u=12, s=163,9, n=0,31, d=36,8) \quad [1a]$$

$$L^* = r(Y/Y_u)^n - d \quad (r = s(Y_u/Y_n)^n = 96,32, L^*_u = r - d = 59,4) \quad [1b]$$

6

4

2

0

Y_curve, ij=31, Yuij=12, L*uij=50

k=99, Ykij=200, L*kij=147,5, $(\Delta Y/Y) / (\Delta Y/Y)_u = 0,52$

k=12, Ykij=113, L*kij=120,5, $(\Delta Y/Y) / (\Delta Y/Y)_u = 0,99$

k=1, Ykij=102, L*kij=116,1, $(\Delta Y/Y) / (\Delta Y/Y)_u = 1,78$

k=0, Ykij=101, L*kij=115,7, $(\Delta Y/Y) / (\Delta Y/Y)_u = 2,20$

$\phi=30'$

$L_{aw} = 40 \text{ cd/m}^2$

application
range

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

$m_u = -0,646$

0,1

1

10

$Y_u=18$
 $Y_u=12$

100

0,529

0,321

-2

-1

0

1

2

log Y