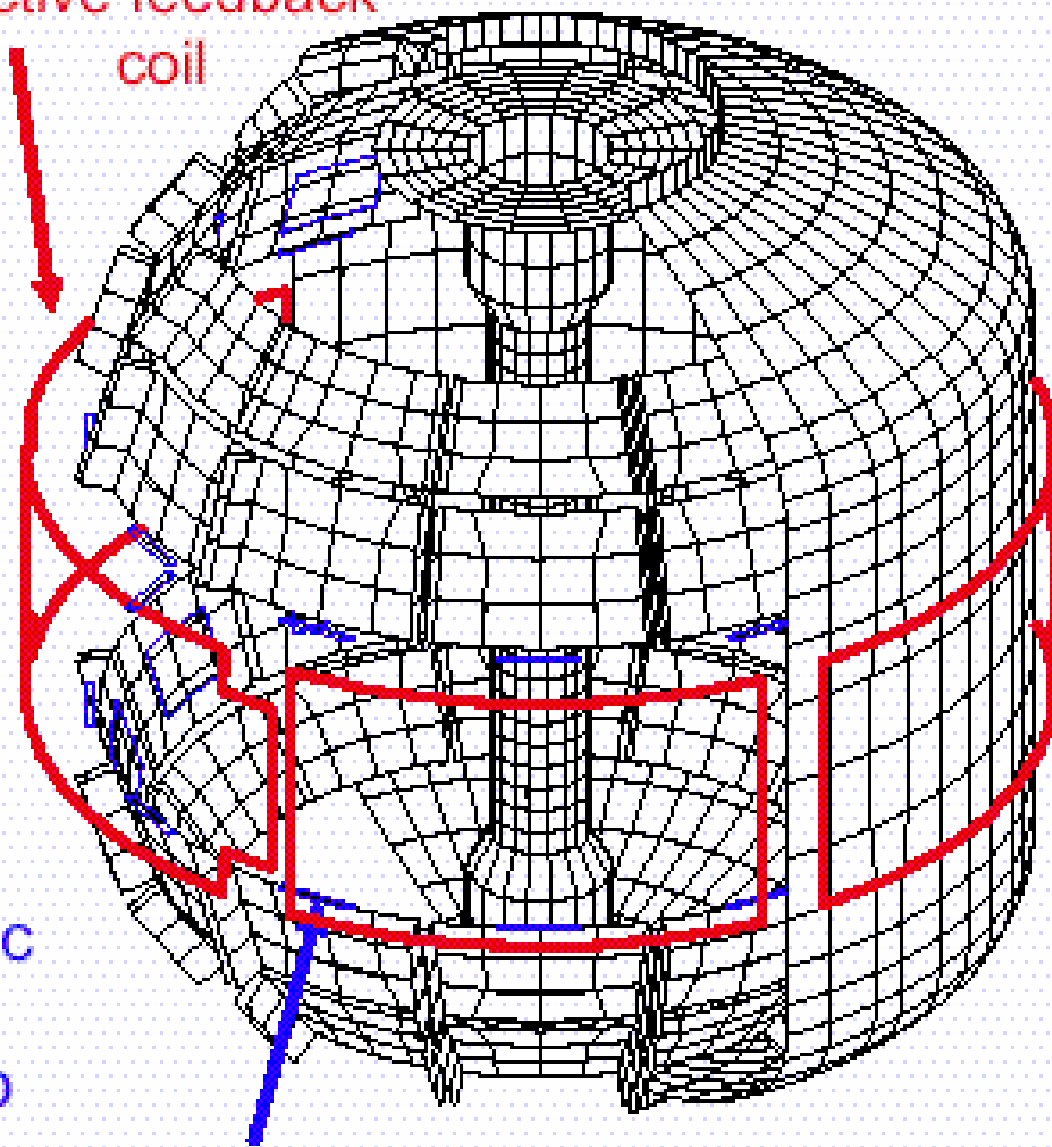


VALEN model of NSTX

(cutaway view)

Active feedback
coil



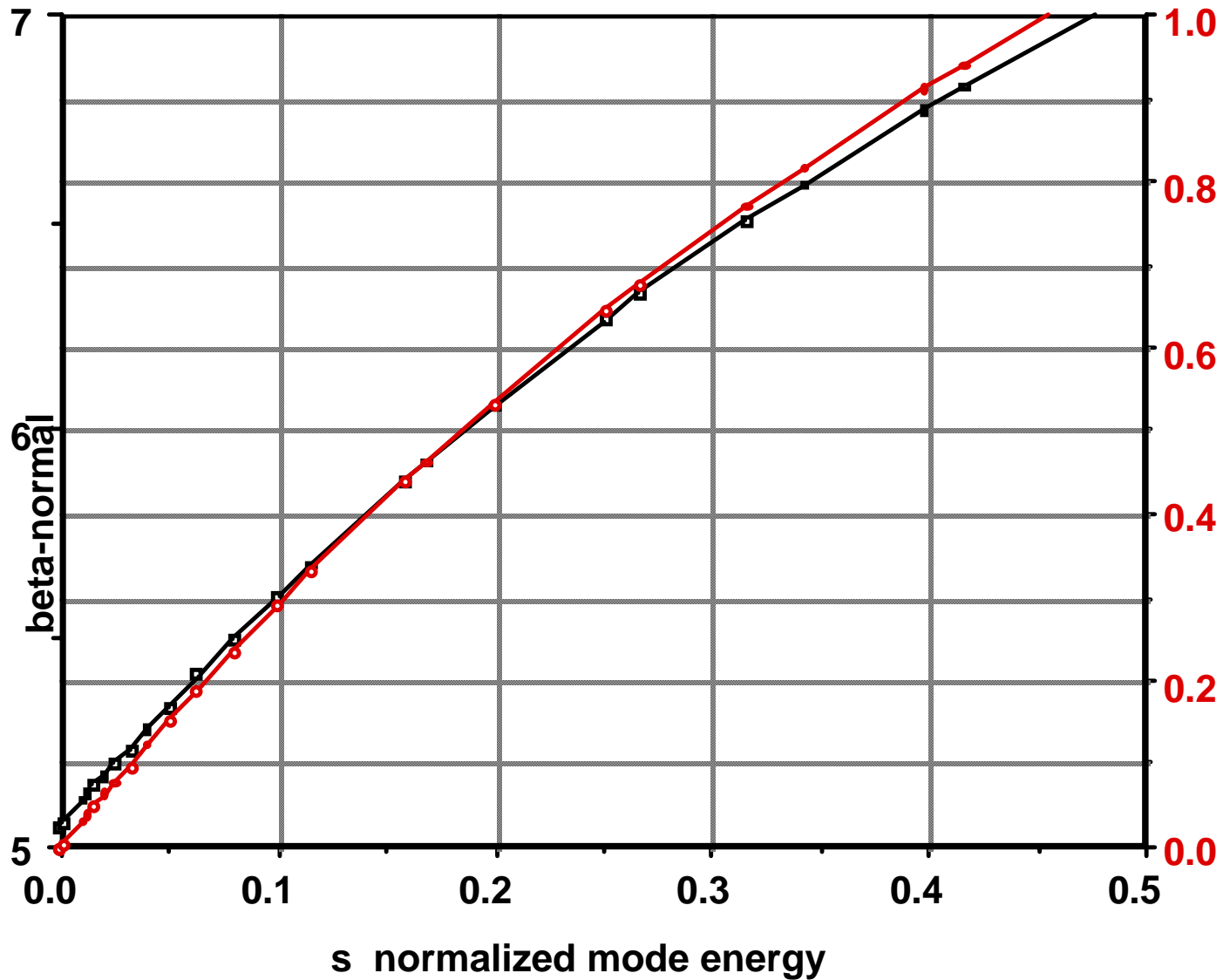
stic
to

Sensors (see A. Sontag, KO1.005)

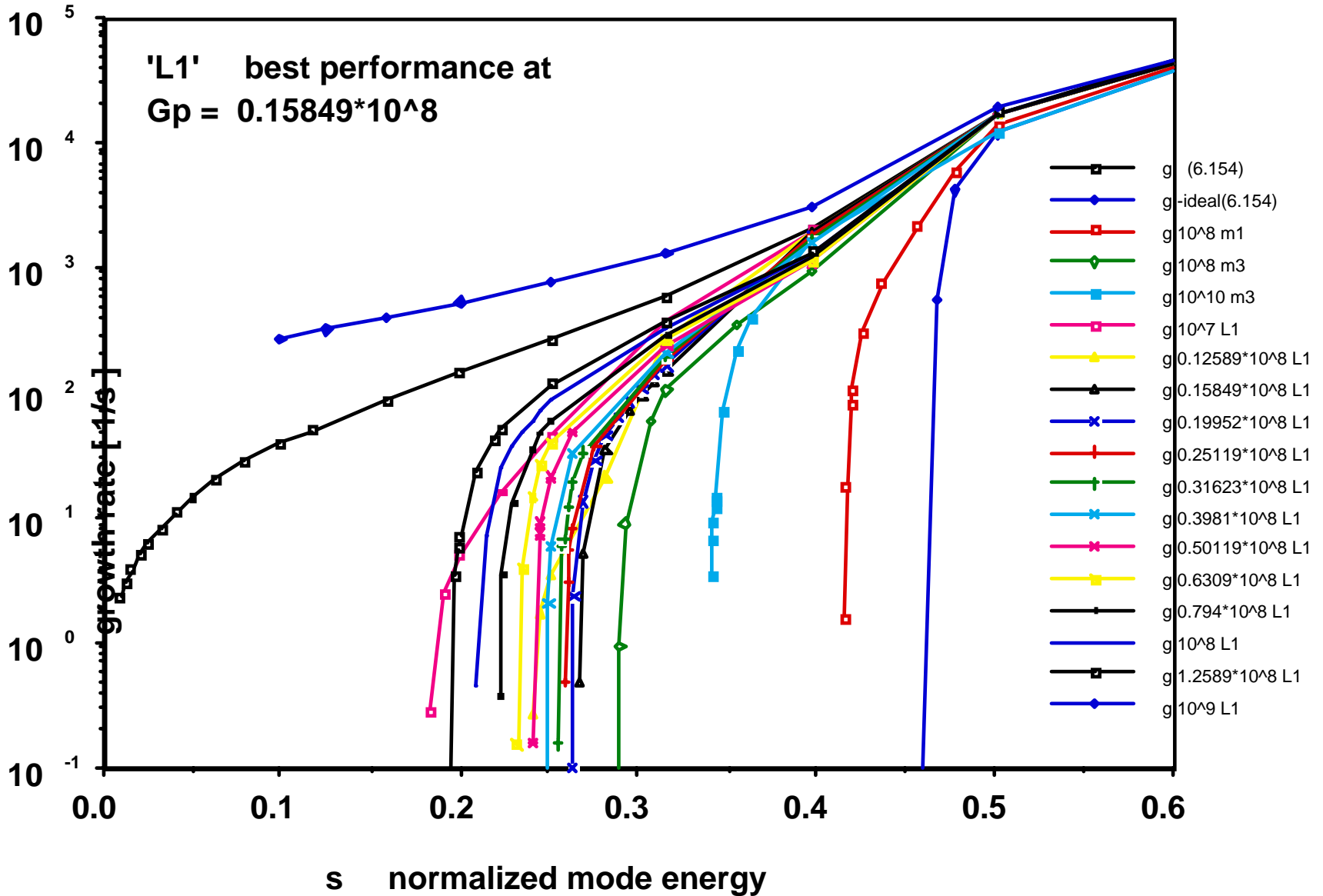
mapping: s to beta-n

NSTX

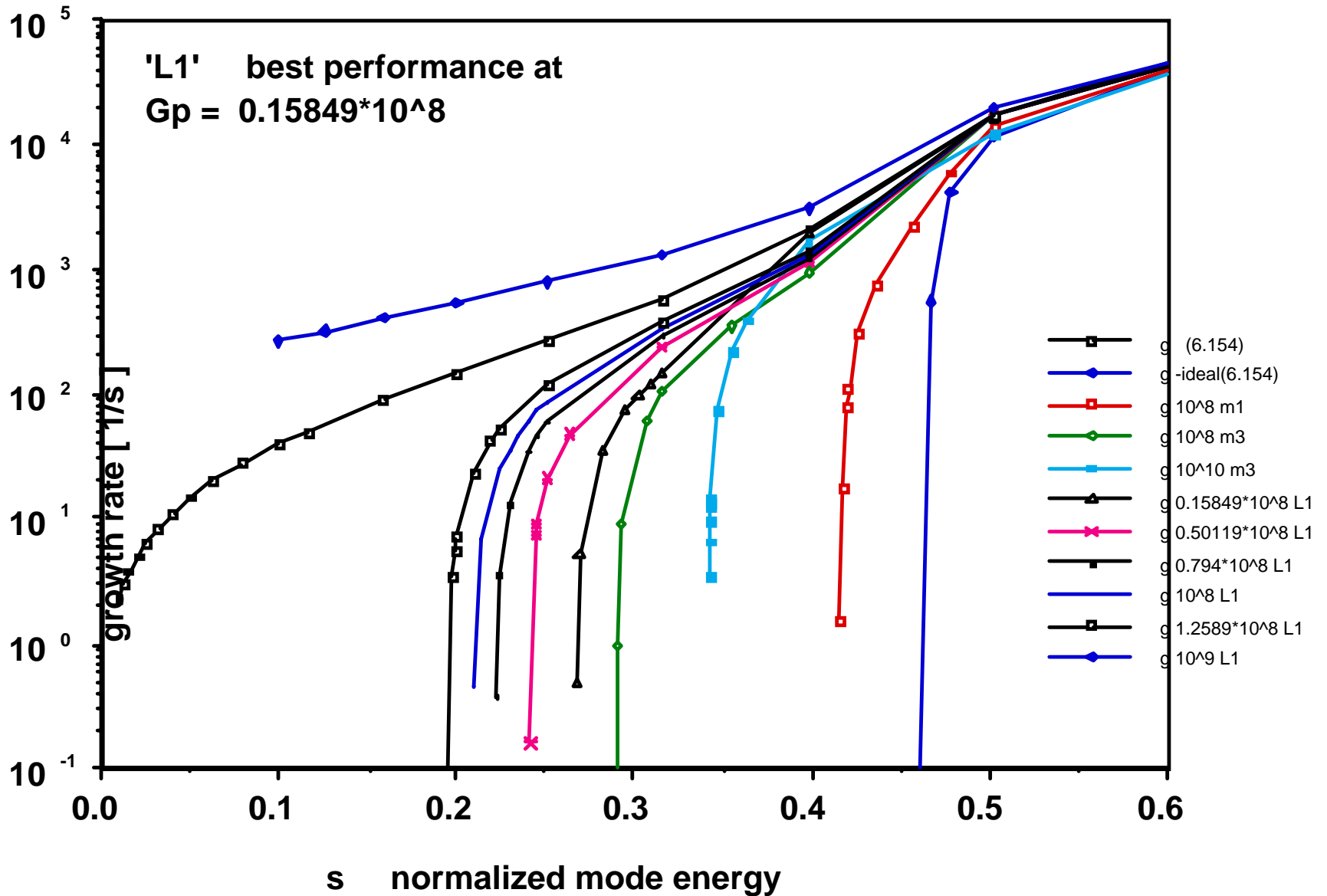
s to normalized scale



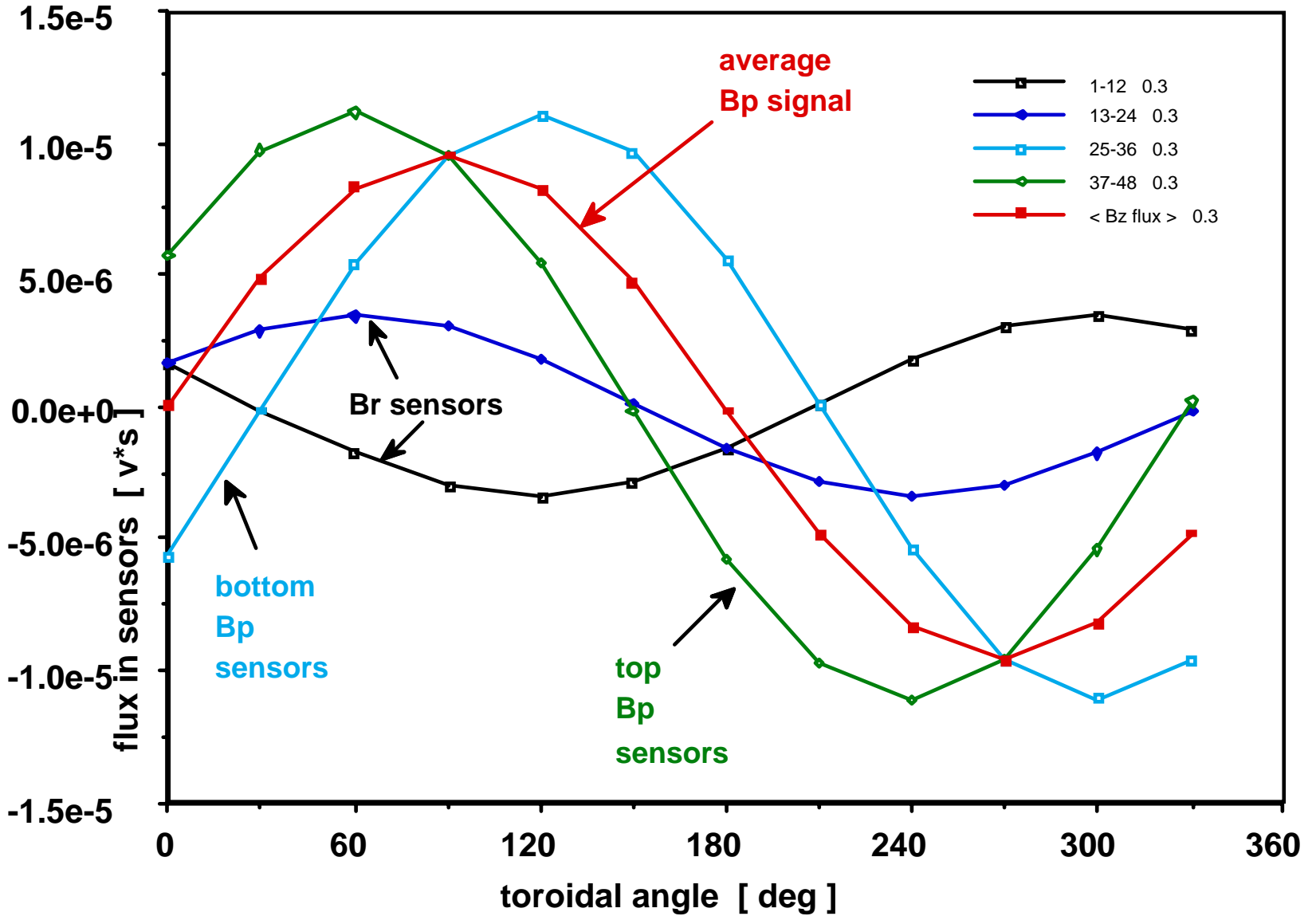
Data from "NSTX.09.2003"



Data from "NSTX.09.2003"

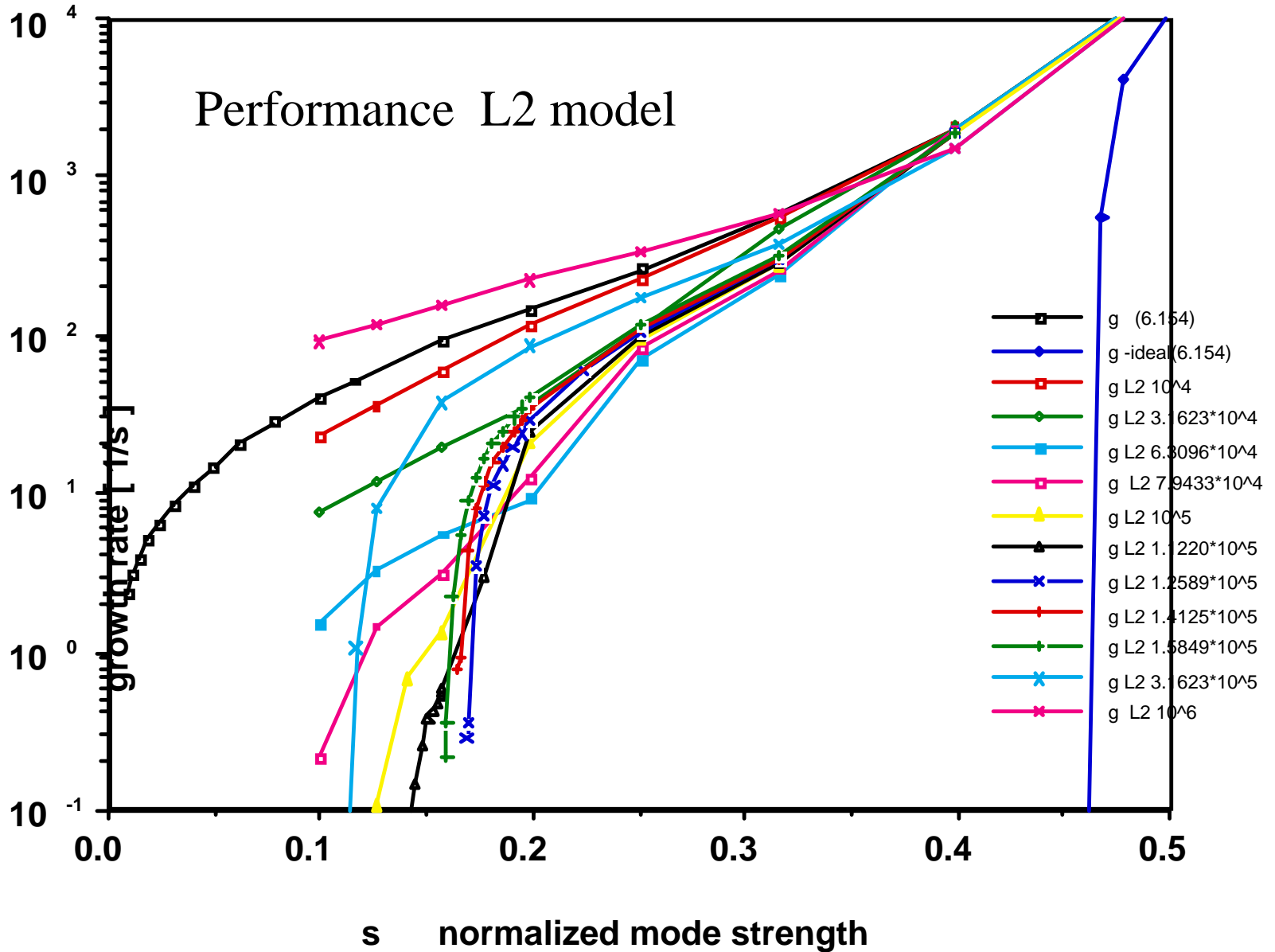


Data from "NSTX.L2"

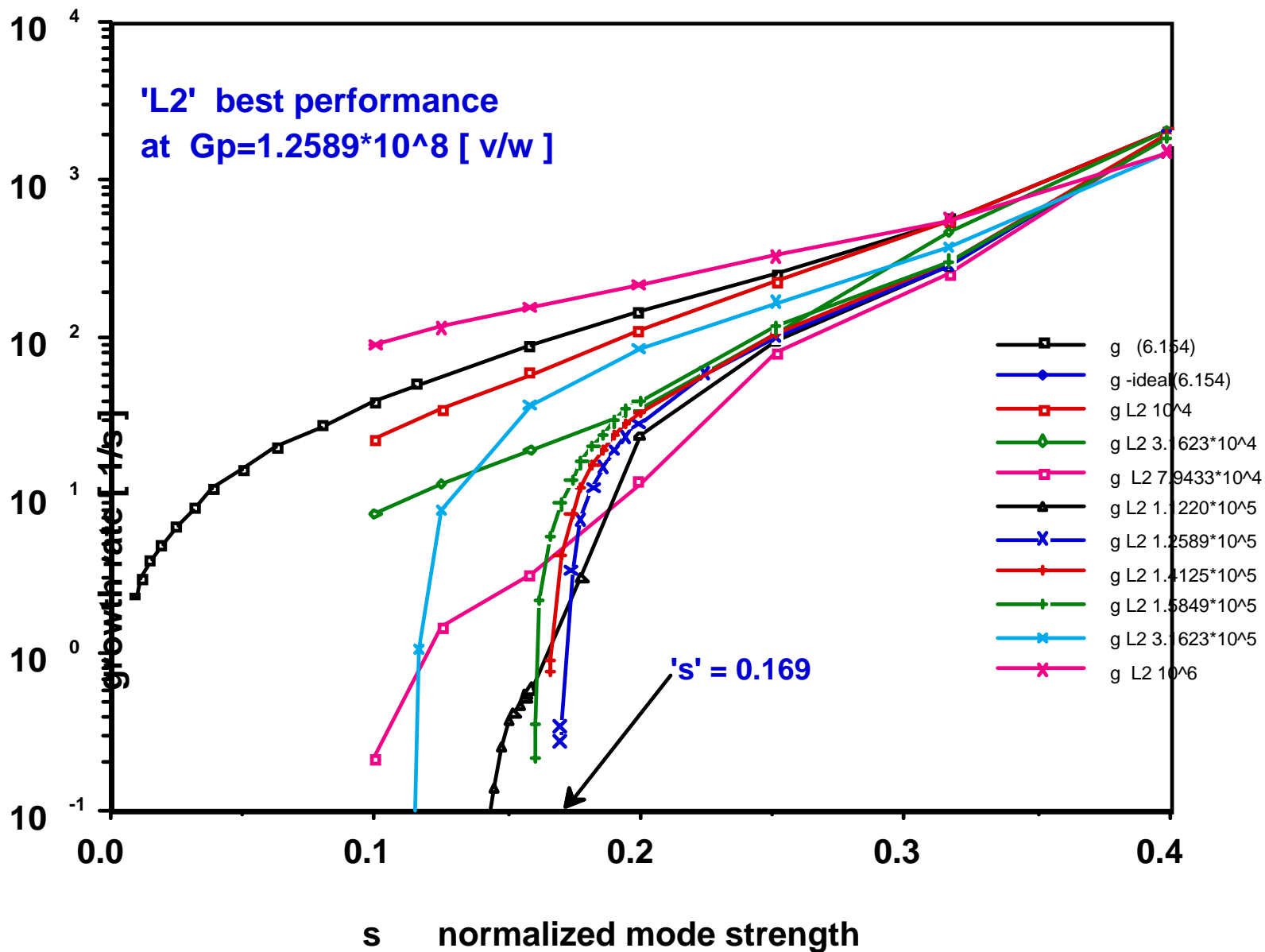


Data from "NSTX.10.2003"

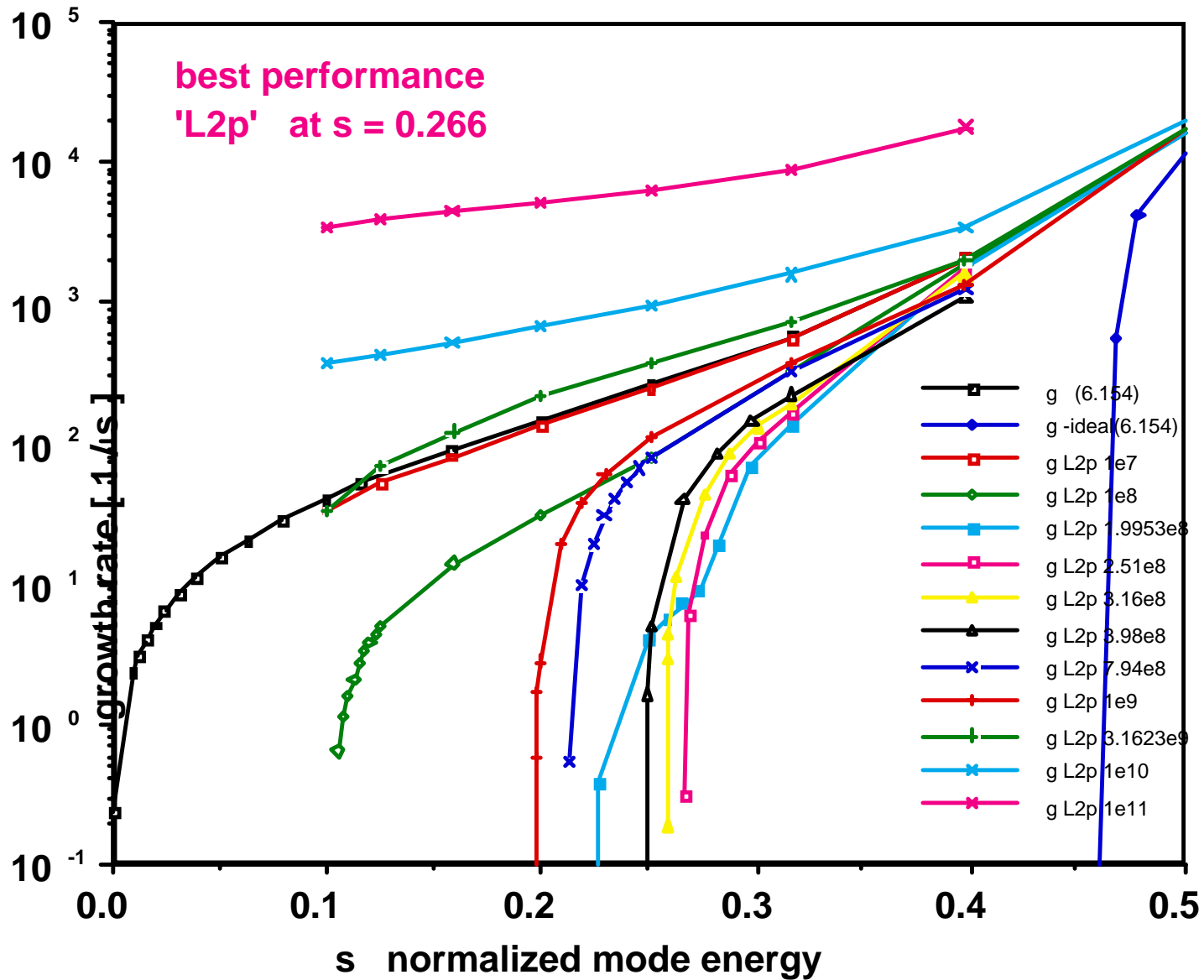
Performance L2 model



Data from "NSTX.10.2003"



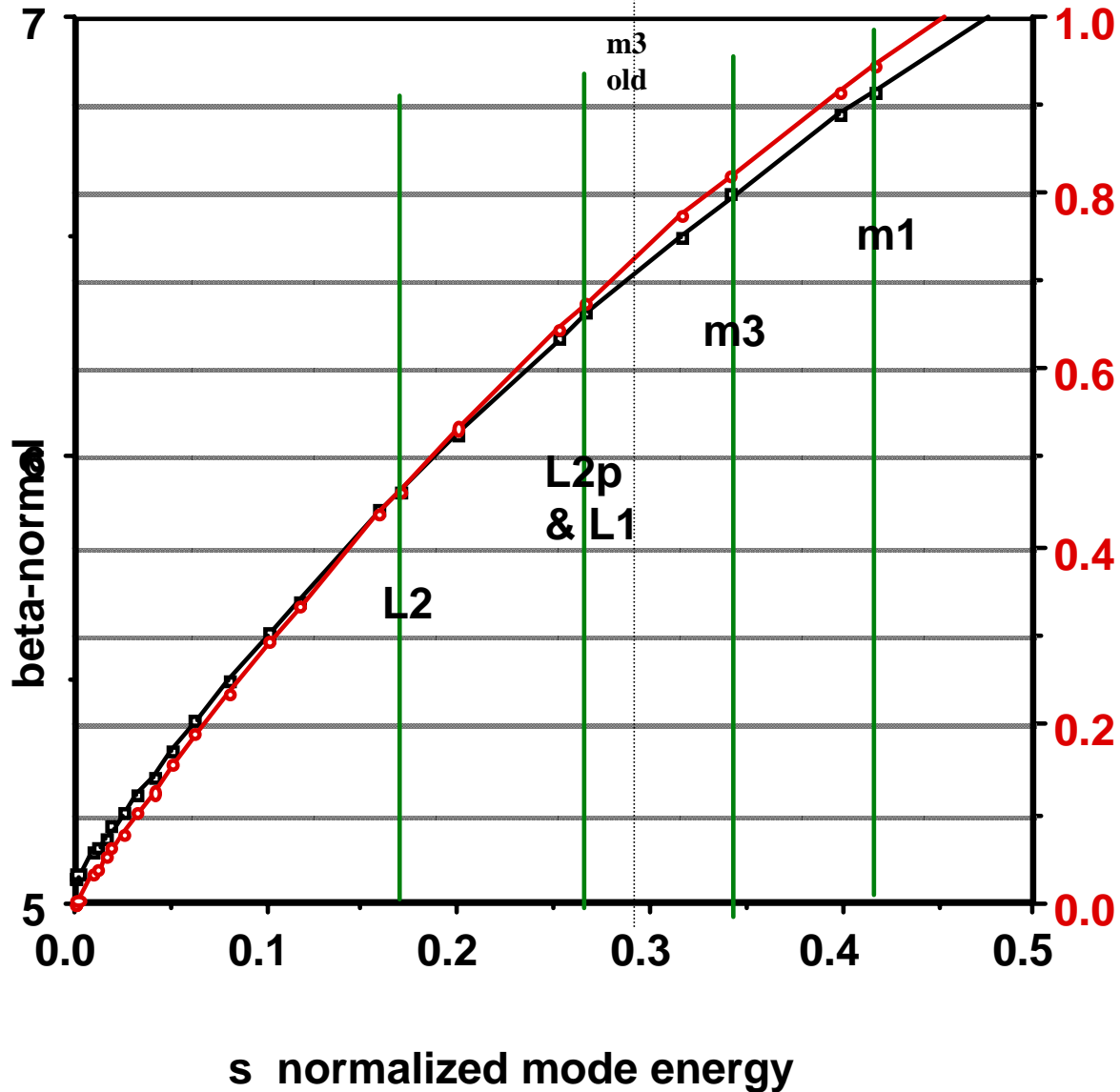
Data from "NSTX.10B.2003"



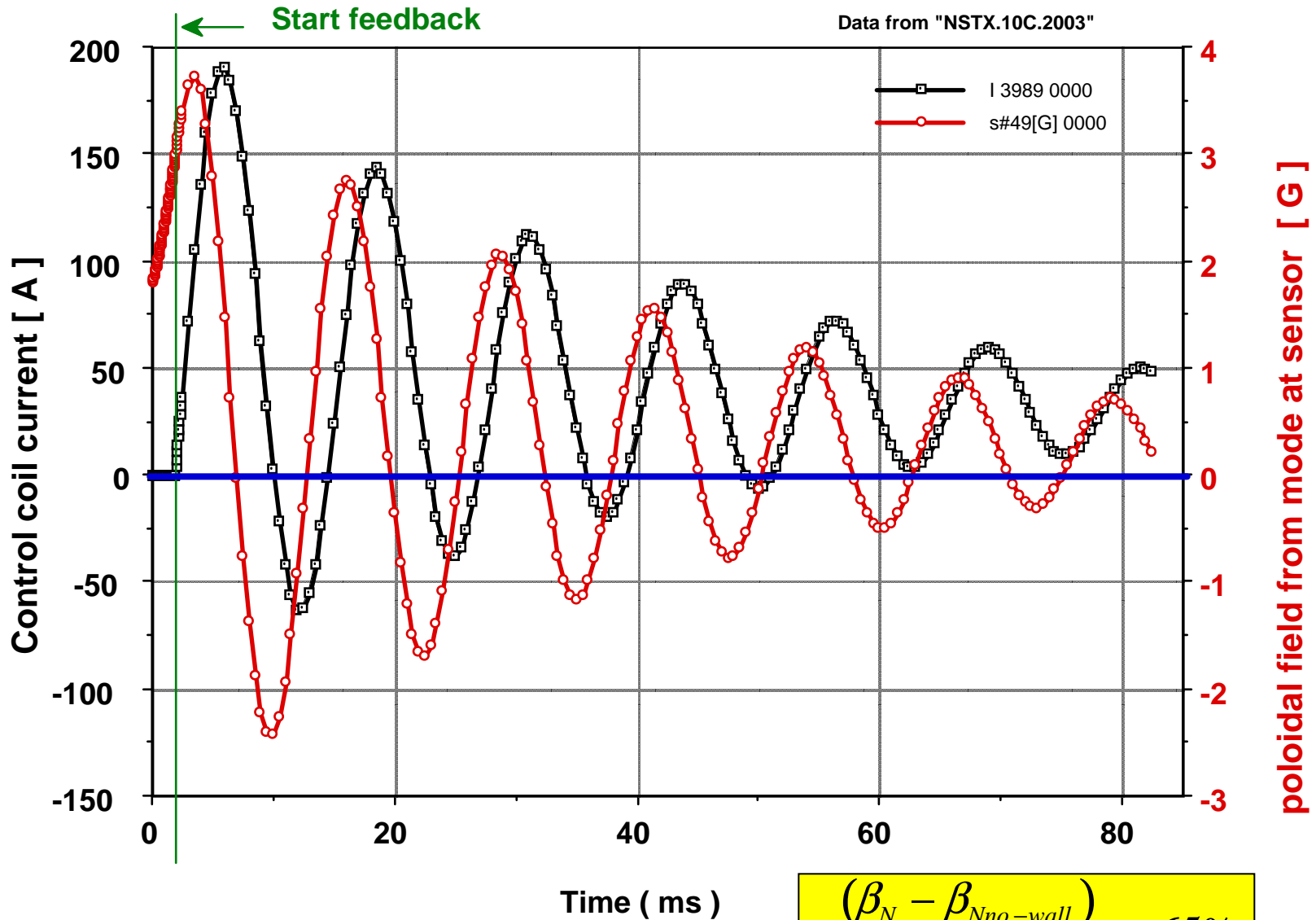
mapping: s to beta-n

NSTX

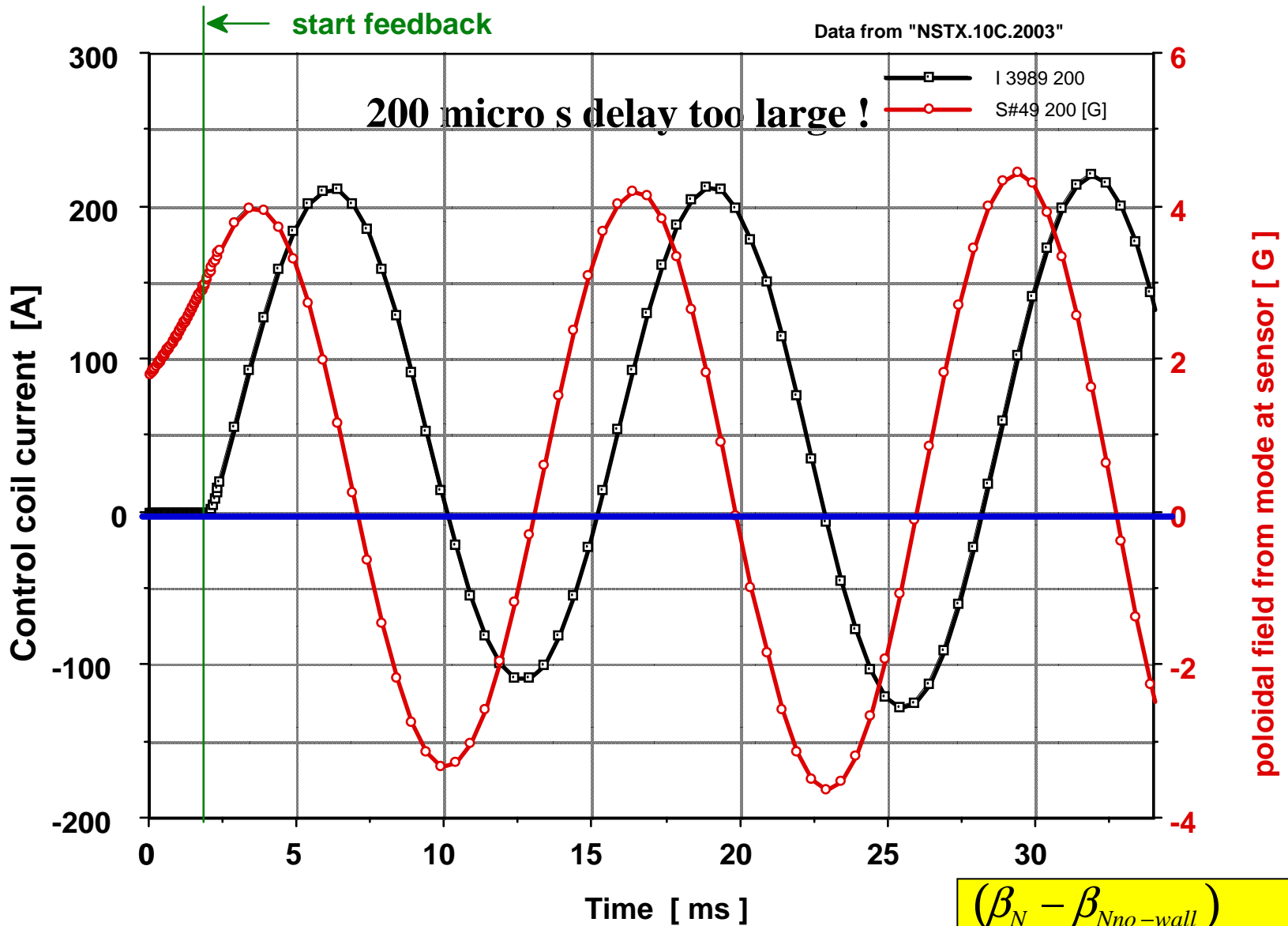
s to normalized scale



No time delay

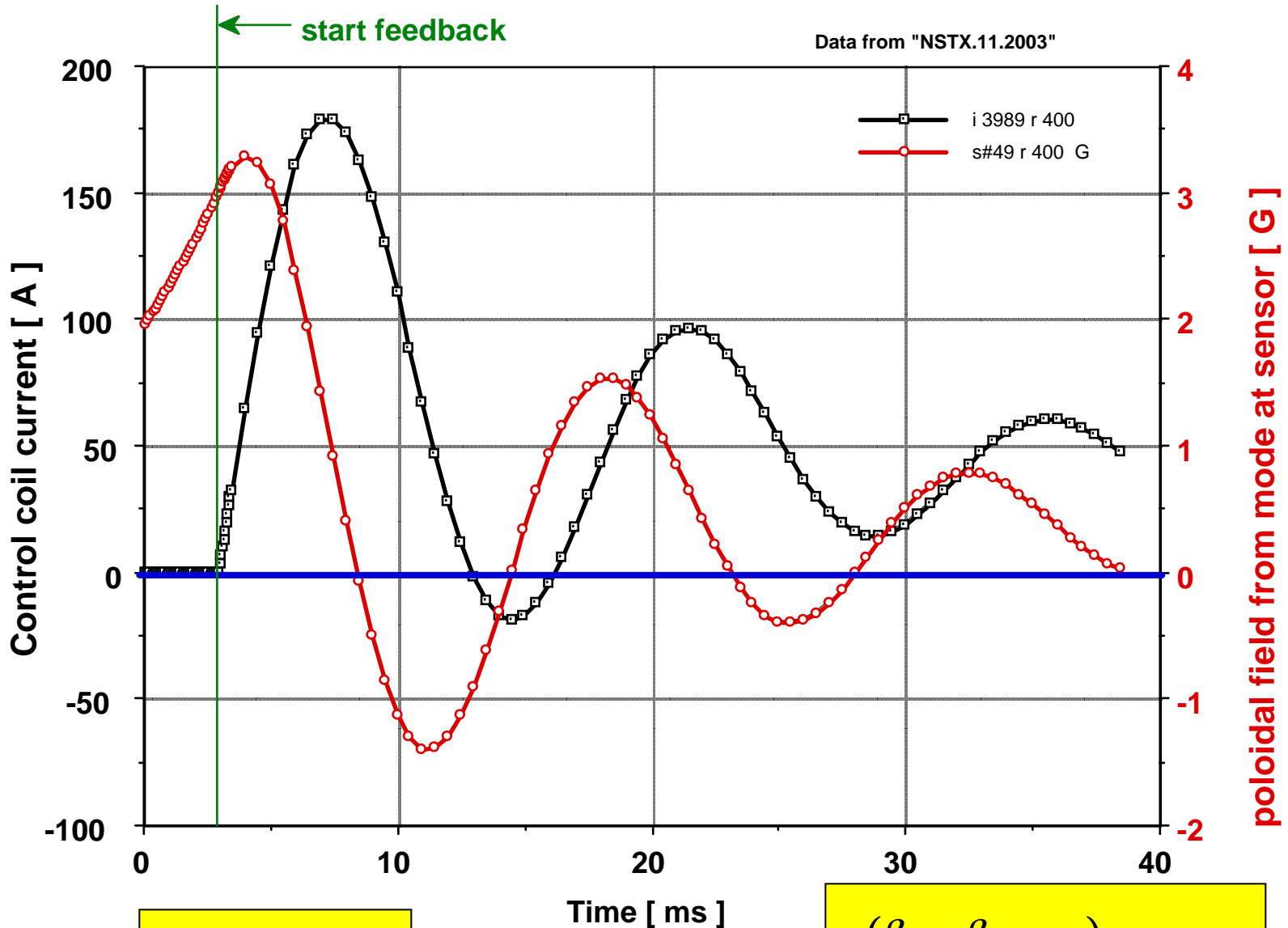


$$\frac{(\beta_N - \beta_{Nno-wall})}{(\beta_{Nwall} - \beta_{Nno-wall})} = 65\%$$



$$\frac{(\beta_N - \beta_{Nno-wall})}{(\beta_{Nwall} - \beta_{Nno-wall})} = 65\%$$

Delay of 400 micro sec still works



$$\beta_N = 6.06$$

$$\frac{(\beta_N - \beta_{Nno-wall})}{(\beta_{Nwall} - \beta_{Nno-wall})} = 53.5\%$$