(a) Dynamic linear deadband with  $\beta_T$  (model 1)

0 deadband size  $[\sigma_w]$ • 0.00 • 0.90 • 0.20 • 1.20 0.8 • 0.50 0.6 β₀  $\bigcirc$ 0.4 0.2 0.0 0.1 \_\_\_\_ dynamic stability z/L

(b) Dynamic hyperbolic deadband with  $\beta_T$  (model 2)



(c) Dynamic linear deadband with  $\beta_w$  (model 3)

