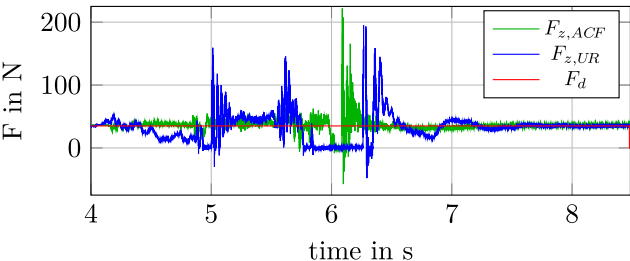


(a)  $v_d = 0.25 \text{ m s}^{-1}$ ,  $F_d = 15 \text{ N}$



(b)  $v_d = 0.25 \text{ m s}^{-1}$ ,  $F_d = 35 \text{ N}$