

$$H = \begin{bmatrix} -1 & -0.23jx \\ -0.55jx & -0.92x + \Delta Q_{TD}/Q_s \end{bmatrix}, \quad (2)$$

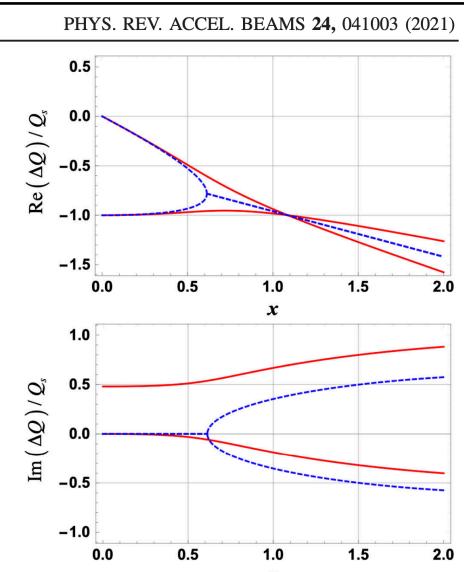


FIG. 4. Solutions of the diagonalization of the 2 by 2 matrix of Eq. (2) vs  $x$  a normalized parameter proportional to the bunch intensity [4]: without (dotted blue line) and with (red line) the resistive TD ( $\Delta Q_{TD}/Q_s = 0.48j$ ).

$$H = \begin{bmatrix} -1 & -0.23jx \\ \cancel{-0.55jx} & \cancel{-0.92x + \Delta Q_{TD}/Q_s} \end{bmatrix}, \quad (2)$$

