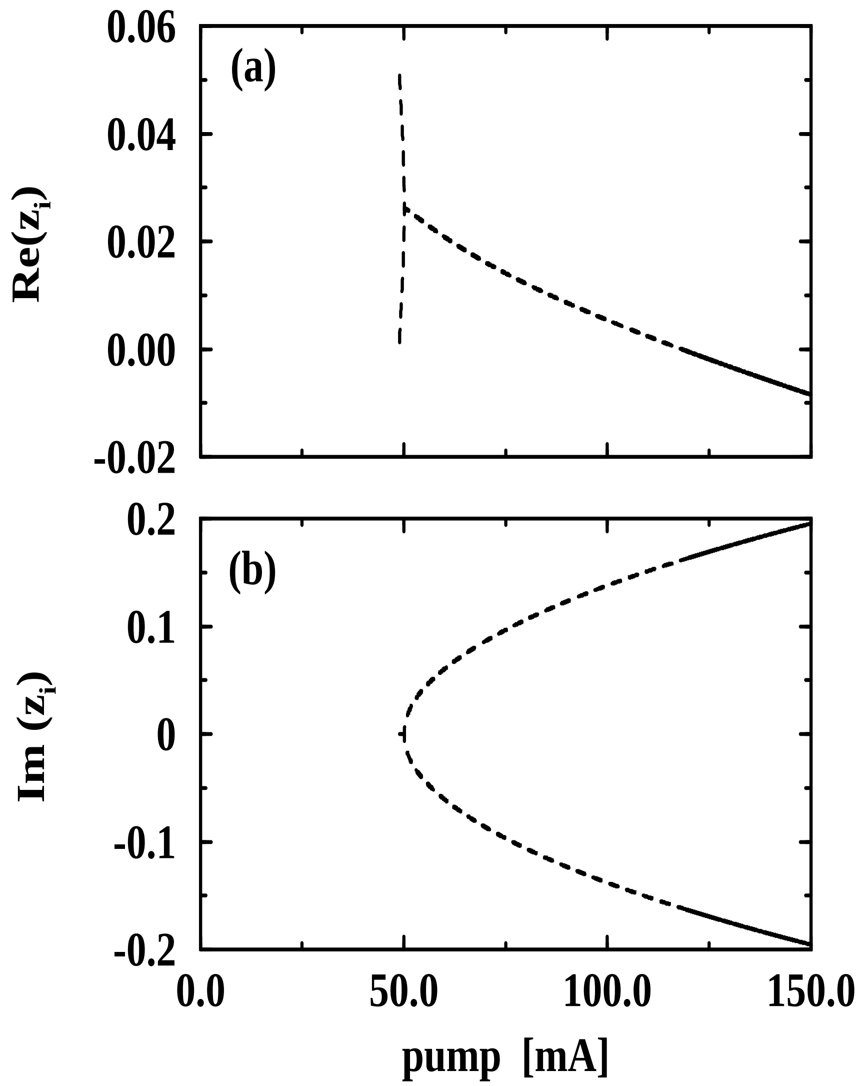

Figure 4: The real (a) and imaginary (b) parts of the complex conjugate pair of roots of the characteristic equation responsible for the unstable behavior of the upper branch of lasing solutions. Coming from high pump, at 118 mA the relaxation oscillation are not damped any more. They remain "undamped" until the solution itself vanishes around 48 mA.