

FIGURE 22.6. *Chebyshev Polynomials $T_n(x)$, $n=1(1)5$.*

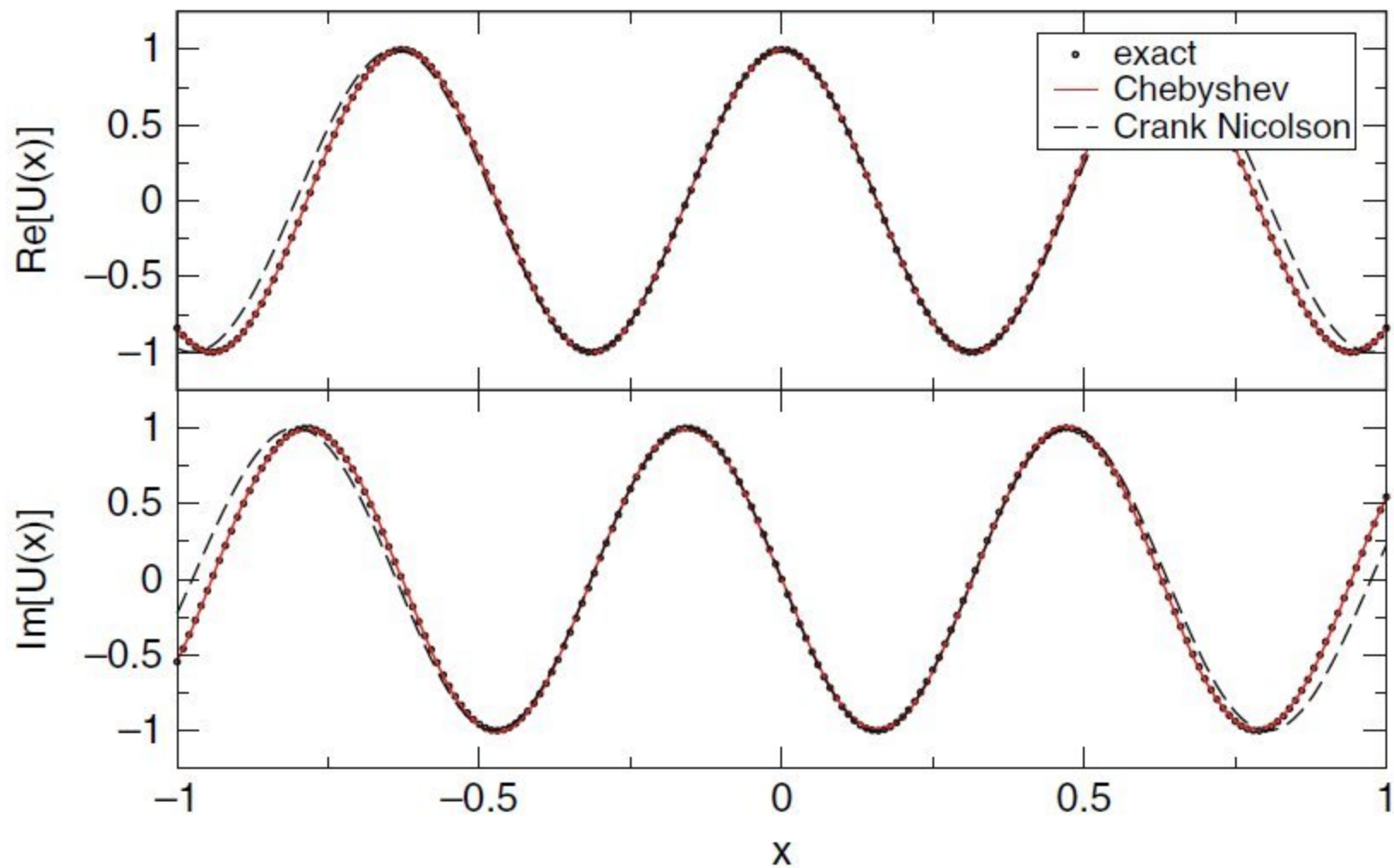


Fig. 19.6. Comparison of the Chebyshev and the Crank-Nicolson approximation of the function $U(t) = \exp(ixt)$ with $t = 10$ and expansion order $N = 15$