

ON MULTIPLE SUMS OF ZEROS FOR SOME SPECIAL FUNCTIONS

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ABSTRACT. In this talk we prove an identity for a class of entire functions. Using this identity We give closed form evaluations of certain multiple sums of the zeros for the Bessel function $J_\nu(z)$, the Airy function $A(z)$, the Riemann zeta function $\zeta(z)$, L -series $L(s, \chi)$ with real primitive characters, Euler's q -exponential function $E_q(z)$, Ramanujan's entire function (a.k.a. q -Airy function) $A_q(z)$, q -Bessel function $J_\nu^{(2)}(z; q)$.