

This paper aims at some representation of unified Voigt functions which play a rather important role in several diverse fields of physics such as astrophysical spectroscopy and the theory of neutron reactions. We derive several representations of $\Omega_{\eta, \nu, \lambda}^{\mu}(x, y)$ in terms of series and integrals which are especially useful in situations when the parameters μ , η , ν , and λ take on particular values. Since it provides an interesting and useful unification of numerous families of special functions in one and more variables; indeed, each of these representations will naturally lead to various other needed properties of these functions.