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## Integrals Involving Airy Functions, Volume 19, Number 13

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Generally, integrals of the type  $\int_0^{\infty} x^{\mu} J_{\nu}(x) dx$  may be written with Lommel functions, see [8], 10 -74, or [3], III . In many cases recurrence relations define

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functions are collected here;  $y$  refers to any linear combination  $I$  of  $A_i(x)$  and  $B_i(x)$ ;  $n$  is a positive integer.  $y^2 dx = xy^2 - yT^2$  (A.1)

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planar geometry are framed within the unifying context of a well-known Lie algebra formalism, which is shown to account for both infinite and finite energy solutions. In fact, the finite energy solutions can be obtained by complexification of the relevant propagation parameter.

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In this short paper, we give some integrals involving Volterra  $\mu$ -functions and Airy functions. In particular, we prove that Volterra functions behave as eigenfunctions of integral equations whose kernels are solutions of the linearized Korteweg-de Vries equation. Keywords: Airy Functions, Volterra Function,

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### Diffusion Equation, Linearized Korteweg-de Vries Equation.

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deduced for the function  $F_n(x, Z) = Z^{n-1} \text{Ai}(x-Z) \text{Ai}(x+Z)$  with  $x \in \mathbb{R}$ ,  $Z > 0$  and  $n \in \mathbb{N}$ . This formula involves the product of Airy functions, their derivatives and Bessel functions. The presence of the latter allows one to perform various transformations with respect to  $Z$  and obtain new integral formulae of the type of the Mellin transform, K-transform, Laplace and Fourier transform.

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