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over symmetric  
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function  $Ai(x -$

$a)Ai(x - b)$ , where

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the first kind,

appears in the

study of the Gelfan

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functions (see [1,  
p. 408]), the

second Painleve  
equation (see [27,  
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A large number of

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Indefinite integrals

of the form  $\int x^n y^1 y^2 dx$  have

been evaluated in

terms of  $x$ ,  $y^1$ ,  $y^2$

and their first

derivatives;  $y^1$

and  $y^2$  are both

solutions of the

differential

equation  $y'' = xy$ .

Some of these

integrals can be

applied to the

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quantum  
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problem of a  
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Functions. The

method uses the

fact that the

Wronskian has a

very simple form. A

recent paper by

Wille and Vennik

(1985) presented a

derivation of the

result  $A_i(x)B_i(x)$

$(A_i^2(x) + B_i^2(x))'$

$dx = 48$  where

$A_i(x)$  and  $B_i(x)$  are

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functions (see [1,

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Functions ... So the  
integrals should be

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Generally, integrals

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may be

written with

Lommel functions,

see [8], 10-74, or

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[3], III . In many cases recurrence

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Functions

functions are collected here;  $y$  refers to any linear combination  $I$  of  $A_i(x)$  and  $B_i(x)$ ;  $n$  is a positive integer.

$$y^2 dx = xy^2 - y^2 T^2$$

(A.1)

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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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A note on the Airy  
beams in the light  
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In this short paper,  
we give some  
integrals involving  
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functions. In  
particular, we  
prove that Volterra  
functions behave  
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A new integral representation of the Hankel transform type is deduced for the function  $F_n(x, Z) = Z^{n-1} A_i(x-Z) A_i(x+Z)$  with  $x \in \mathbb{R}$ ,  $Z > 0$  and  $n \in \mathbb{N}$ . This formula involves the product of Airy

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Functions, their

derivatives and

Bessel functions.

The presence of

the latter allows

one to perform

various

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with respect to  $Z$

and obtain new

integral formulae of

the type of the

Mellin transform, K-

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function  $Ai(x - a)Ai(x - b)$ , where

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the Airy function of the first kind,

appears in the

study of the Gelfand-Levitan-Marchenko

equation

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functions (see [1,

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equation (see [27,

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p. 134]) and the  
limit at the "edge  
of the spectrum" of  
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A large number of  
indefinite integrals  
of the form  $\int x^n y^1 y^2 dx$  have  
been evaluated in  
terms of  $x, y^1, y^2$

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Functions;  
and their first  
derivatives;  $y_1$

and  $y_2$  are both

solutions of the  
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equation  $y'' = xy$ .

Some of these  
integrals can be  
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Abstract. We show how to evaluate a large number of integrals involving Airy functions. The method uses the fact that the Wronskian has a



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very simple form. A recent paper by Wille and Vennik (1985) presented a derivation of the result  $\int (A_i(x)B_i(x) (A_i^2(x) + B_i^2(x)))' dx = 48$  where  $A_i(x)$  and  $B_i(x)$  are the standard Airy functions.

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function  $Ai(x -$

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there occurred some exceptions. Generally, integrals

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cases recurrence

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$A_i(x)$  and  $B_i(x)$ ;  $n$  is

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a positive integer.  
 $y^2 dx = xy^2 - y^2 T^2$

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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,

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Importance

transform type is deduced for the function  $F_n(x, Z) = Z^{n-1} A_i(x-Z) A_i(x+Z)$  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

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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.