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\_\_\_\_\_||  
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dimensional manifolds Colloquium.

11/14/2019. Boris Tsygen. Microlocal  
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method of spherical means is the well  
known and elegant method of  
solving initial value problems for

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multidimensional PDE. By this method the problem reduced to the 1+1 dimensional one, which can be solved easily. But

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## Problems

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In mathematics, the  
Euler–Poisson–Darboux equation is  
the partial differential equation.  $u_x + N(u_x + u_y) x + y = 0$ .

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$$\{u_x + u_y\} + \frac{N(u_x + u_y)}{x+y} = 0.$$
 This equation is named for Siméon Poisson, Leonhard Euler, and Gaston Darboux.

Euler–Poisson–Darboux equation -  
Wikipedia

Solutions to Non-linear Euler-Poisson-

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Darboux Equations by Means of  
Generalized Separation of Variables  
Article in Lobachevskii Journal of  
Mathematics 40(5):640-647 · May  
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Solutions to Non-linear Euler-Poisson-  
Darboux Equations by ...



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In this paper a nonlinear Euler-Poisson-Darboux system is considered. In a first part, we proved the genericity of the hypergeometric functions in the development of exact solutions for such a system in some special cases leading to Bessel type differential equations. Next, a finite

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difference scheme in two-  
dimensional case has been  
developed.

Study of a Generalized Nonlinear  
Euler-Poisson-Darboux ...  
Euler-Poisson-Darboux equation.  
$$\Delta u = L(u, \alpha, \beta)$$

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Equation\* 
$$\frac{\partial u}{\partial x} - \frac{\alpha - \beta}{x - y} \frac{\partial u}{\partial x} + \frac{\alpha(\beta - 1)}{(x - y)^2} u = 0,$$
 where  $\alpha$  and  $\beta$  are real positive parameters such that  $\alpha + \beta < 1$  (see [a8]) and  $\frac{\partial u}{\partial x}$

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$x\}u$  denotes the partial derivative of the function  $u$  with respect to  $x$ .

Euler-Poisson-Darboux equation -  
Encyclopedia of Mathematics  
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mathematics, the

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Euler-Poisson-Darboux equation is  
the partial differential equation.  $u_x^2 + u_y^2 + N(u_x + u_y)x + y = 0$ .

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On the nonexistence of global  
solutions to a nonlinear Euler-Poisson-

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Darboux equation. J. Math. Anal. Appl. 48, 646–651 (1974). Google Scholar; 6. Levine, H. A., On the nonexistence of global weak solutions to some properly and improperly posed problems of mathematical physics: The method of unbounded Fourier coefficients.

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Growth of solutions of generalized  
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Darboux equation . Author links  
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On the nonexistence of global solutions to a nonlinear ...

Howard A. Levine, On the nonexistence of global solutions to a nonlinear Euler-Poisson-Darboux equation, Journal of Mathematical



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10.1016/0022-247X(74)90137-1, 48, 3,  
(646-651), (1974).

On solutions of nonlinear wave  
equations - Keller - 1957 ...

$v^*u=0$ , (1.2) first obtained by Euler.

Here  $u = (u, v, W)$  are the components

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of the three-dimensional velocity field and  $p$  the pressure of the fluid at a position  $x = (x, y, z)$ . Our considerations will also apply to two-dimensional motions, where  $u = (u, v)$  and  $x = (x, y)$ .

A Nonlinear Hamiltonian Structure for

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the Euler Equations Initial Value

Weinstein A. (1954). On the wave equation and the equation of Euler-Poisson. Proceedings of Symposia in Applied Mathematics, Wave motion and vibration theory, McGraw-Hill Book Company, New York-Toronto-London(5), 137-147.[Google Scholar]

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Weinstein A. (1955). The generalized radiation problem and the Euler-Poisson-Darboux equation.

Second mixed problem for an Euler-Poisson-Darboux equation ...  
(EPD) equation (8;p) Here and  $\text{Re}(a(t))$   
# - nit - (nit) I. now becomes

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Equivalent to Theorem 2 thus follows

o We now apply Theorem 2 to the abstract Euler-Poisson-Darboux  $v''(t) + \lambda v(t) + S^2v(t) = 0$ .  $S$  is a self-adjoint operator on a complex Hilbert space  $p$  is a complex constant.

Nonlinear Equations in Abstract

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In this paper, we have applied He ' s homotopy perturbation method (HPM) to solve a nonlinear Singular Cauchy Problem of Euler-Poisson-Darboux Equation. The solution of the problem is much simplified and shorter to arriving at the solution as

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compared to the technique applied  
by Carroll and Showalter in the  
solution of Singular Cauchy Problem.

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## 2 Problems