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L2. The Klein-Gordon Equation

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The cylindrical Kadomtsev–Petviashvili equation (CKP) is a two-dimensional generalization of the cylindrical Korteweg–de Vries equation (CKdV). Johnson introduced the CKP equation in 1978 in the context of describing surface waves in a shallow incompressible fluid.

CYLINDRICAL KADOMTSEV–PETVIASHVILI EQUATION: OLD AND NEW ...

: Equation (7) is a cylindrical Kadomtsev-Petviashvili (cKP) equation, also known as Johnson's equation, first introduced in the context of shallow water waves [30].

Cylindrical Kadomtsev-Petviashvili equation: Old and new ...

Abstract. We review results on the cylindrical Kadomtsev-Petviashvili (CKP) equation, also known as the Johnson equation. The presentation is based on our results. In particular, we show that the Lax pairs corresponding to the KP and the CKP equations are gauge equivalent. We also describe some important classes of solutions obtained using the Darboux transformation approach.

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Download Ebook Cylindrical Kadomtsev Petviashvili Equation Old And New (1936–1993); it came as a natural generalization of the KdV equation (derived by Korteweg and De Vries in 1895). Whereas in the KdV equation waves are strictly one-dimensional, in the KP equation this restriction is relaxed. Kadomtsev–Petviashvili equation - Wikipedia

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Cylindrical Kadomtsev Petviashvili Equation Old And New
In mathematics and physics, the Kadomtsev–Petviashvili equation – or KP equation, named after Boris Borisovich Kadomtsev and Vladimir Iosifovich Petviashvili – is a partial differential equation to describe nonlinear wave motion. The KP equation is usually written as: $\partial x + \lambda \partial y y u = 0$ {\displaystyle \displaystyle \partial _{x}+\lambda \partial _{yy}u=0} where $\lambda = \pm 1$ {\displaystyle \lambda =\pm 1}. The above form shows that the KP equation is a generalization to two spatial ...

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The decay mode solutions for the cylindrical Kadomtsev–Petviashvili equation can be obtained by the Bäcklund transformation and Hirota method. Discover the world's research 17+ million members

The decay mode solutions for the cylindrical KP equation
Abstract. The hydrodynamic equations of positive and negative ions, Boltzmann electron density distribution and Poisson equation with stationary dust particles are used along with the reductive perturbation method to derive a three-dimensional cylindrical Kadomtsev–Petviashvili equation. The generalized expansion method, used to obtain a new class of solutions, admits a train of well-separated bell-shaped periodic pulses.

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