

Cylindrical Kadomtsev Petviashvili Equation Old And New

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Dynamics of the soliton waves, breather waves, and rogue ...

Uncle of the artist Vladimir Iosipovich Petviashvili is a famous physicist, co-author of the Kadomtsev-Petviashvili equation, winner of the Kurchatov award. On the maternal side, seventeen generations of Rusudan Petviashvili ' s family were spiritual leaders (priests). Rusudan is the eldest of five children in the family.

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OSTI.GOV Journal Article: Three dimensional cylindrical Kadomtsev-Petviashvili equation in a very dense electron-positron-ion plasma

Numerical study of the Kadomtsev – Petviashvili equation and ...

Herein, the Kadomtsev Petviashvili equation with variable coefficients is investigated, which describes the long waves with small amplitude and slow dependence on the transverse coordinate in a single layer shallow fluid. Breather wave solutions are obtained based on a variable coefficient three wave approach.

Three-dimensional cylindrical Kadomtsev – Petviashvili ...

In this work, we study a cylindrical Kadomtsev-Petviashvili (CKP) equation, which can be derived from pair-ion – electron plasmas. We further report some interesting mathematical analytical results, including some dynamics of soliton waves, breather waves, and rogue waves in pair-ion – electron plasma via the CKP equation.

Breather wave solutions for the Kadomtsev Petviashvili ...

This new evolution equation is called the unified Kadomtsev – Petviashvili (uKP) equation because most of the KP-type equations existing in the literature for

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both surface water waves and interfacial waves are special cases of the new evolution equation.

The cylindrical Kadomtsev-Petviashvili equation; its Kac ...

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.

Kadomtsev-Petviashvili equation - How is Kadomtsev ...

where $\epsilon > 0$ is a small parameter. The case $\epsilon = -1$ is known as the KPI equation, whereas the case $\epsilon = 1$ is known as the KPII equation. Equation (1), which was first derived by Kadomtsev & Petviashvili [1] in the context of plasma physics, is a universal model for the evolution of weakly nonlinear two-dimensional long water waves of small amplitude, and arises in a variety of physical settings.

Cylindrical Kadomtsev Petviashvili Equation Old And New

In the presence of an applied static and uniform magnetic field, a cylindrical Kadomtsev – Petviashvili (CKP) equation is derived for a relativistically magnetosonic solitary wave propagating in a collisionless plasma in the case of weak relativistic limit. The equation is solved in a stationary frame to obtain a particular solution.

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

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.

Whitham modulation theory for the Kadomtsev – Petviashvili ...

a connection between solutions of the Kadomtsev-Petviashvili (KP) [9] and solutions of the Johnson ... cylindrical Kadomtsev- Petviashvili equation, in Proc. 2nd Int. Workshop on Nonlinear and Turbulent ... V.B. Matveev, A.O. Smirnov, Cylindrical Kadomtsev-Petviashvili equation: Old and new results, Theor. Math. Phys., V. 152, N. 2, 1132-1145, 2007

Rusudan Petviashvili - Wikipedia

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Three dimensional cylindrical Kadomtsev-Petviashvili ...

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 ...

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The unified Kadomtsev – Petviashvili equation for ...

In this paper, we construct an extended Bogoyavlenskii Kadomtsev Petviashvili (eBKP) equation. We use the Painlevé analysis to justify the integrability of the eBKP equation. We also examine the integrability of a related extended CBS equation. We derive multiple soliton solutions via using the Hirota's direct method.

Cylindrical Kadomtsev Petviashvili Equation Old

Theoretical and Mathematical Physics, 152(2): 1132 – 1145 (2007) CYLINDRICAL KADOMTSEV – PETVIASHVILI EQUATION: OLD AND NEW RESULTS C. Klein, V. B. Matveev, † and A. O. Smirnov ‡ We review results on the cylindrical Kadomtsev – Petviashvili (CKP) equation, also known as the Johnson equation.

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].

On integrability of an extended Bogoyavlenskii Kadomtsev ...

KP - Kadomtsev-Petviashvili equation. Looking for abbreviations of KP? It is Kadomtsev-Petviashvili equation. Kadomtsev-Petviashvili equation listed as KP. ... (old unit of force) KP: Knight ... exact solutions of the cylindrical Kadomtsev-Petviashvili equation," in Nonlinear and Turbulent Processes in Physics: Proceedings of the ...

Cylindrical Kadomtsev – Petviashvili equation for ...

Eq. (1) is the first member of a hierarchy of nonlinear equations in $2+1$ dimensions with variable coefficients. For $H=G=F=0$ eq. (1) reduces to the cylindrical Kadomtsev-Petviashvili equation [4-6] (CKP) describing nonlinear cylindrical water waves in shallow water (with a weak azimuthal dependence, where y is an azimuthal variable).

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

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Three-dimensional cylindrical Kadomtsev-Petviashvili ...

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

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The decay mode solutions for the cylindrical KP equation

The equation was first introduced by Kadomtsev & Petviashvili in order to study the stability of the Korteweg – de Vries (KdV) soliton in a two-dimensional setting, and it is now a prototype for the evolution of weakly nonlinear quasi-unidirectional waves of small amplitude in various physical situations.

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