



## Research Article

## Special Issue: In honor of Joel Spruck

Yisong Yang\*

# Nonlinear problems inspired by the Born–Infeld theory of electrodynamics

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**Abstract:** It is shown that nonlinear electro-dynamics of the Born–Infeld theory type may be exploited to shed insight into a few fundamental problems in theoretical physics, including rendering electromagnetic asymmetry to energetically exclude magnetic monopoles, achieving finite electromagnetic energy to relegate curvature singularities of charged black holes, and providing theoretical interpretation of equations of state of cosmic fluids via k-essence cosmology. Also discussed are some nonlinear differential equation problems.

**Keywords:** Born–Infeld electrodynamics; black holes; curvature singularities; k-essence cosmology; equation of state; early universe

**Mathematics subject classifications (2020):** 35Q75; 78A25; 83C22; 83C57; 83F05

## 1 Introduction

Fundamental physics thrives and even relies on nonlinearities which often lead to highly challenging nonlinear differential equation problems. For example, the free motion of a particle of mass  $m$  and velocity  $v$  is governed in Newtonian mechanics by the Lagrangian action function  $\frac{1}{2}mv^2$  but that in Einstein's special relativity is by  $mc^2(1 - \sqrt{1 - v^2/c^2})$  where  $c$  is the speed of light in vacuum; in order to obtain a full description of the quantum-mechanical motion of a charged particle, the conventional partial derivative  $\partial_\mu$  with respect to the Minkowski spacetime coordinate  $x_\mu$  in the Schrödinger equation needs to be replaced by the gauge-covariant derivative  $D_\mu = \partial_\mu - iA_\mu$ , where  $A_\mu$  is a real-valued gauge field with induced electromagnetic field  $F_{\mu\nu} = \partial_\mu A_\nu - \partial_\nu A_\mu$ , giving rise to nonlinear interaction between the wave function and gauge field in the coupled theory; the Yang–Mills gauge field theory describing weak and strong interactions between subatomic particles is formulated in terms of matrix-valued field tensors of the form  $F_{\mu\nu} = \partial_\mu A_\nu - \partial_\nu A_\mu + [A_\mu, A_\nu]$  where  $A_\mu$  is a matrix-valued gauge field and  $[\cdot, \cdot]$  the matrix commutator, introducing nonlinear self-interaction of the gauge field; the gravitational theory of Einstein is built over a pseudo-Riemannian or Lorentzian manifold that relates the spacetime metric tensor to the matter presence through coupling its Ricci tensor and curvature scalar to the matter stress tensor, which inevitably gives rise to a highly nonlinear partial differential equation problem. Interestingly, in many situations, even when the original theoretical setups are linear and successful, it

In honor of Professor Joel Spruck on the occasion of his retirement with affection and admiration.

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# Nonlinear Problems In Relativity And Cosmology

**G Psacharopoulos**



## **Nonlinear Problems In Relativity And Cosmology:**

**Nonlinear Problems in Relativity and Cosmology** J. Robert Buchler, Steven Detweiler, James R. Ipser, 1991

*Reports on Astronomy* Immo Appenzeller, 2012-12-06 IAU Transactions are published as a volume corresponding to each General Assembly Volume A is produced prior to the Assembly and contains Reports on Astronomy prepared by each Commission President The intention is to summarize the astronomical results that have affected the work of the Commission since the production of the previous Reports up to a time which is about one year prior to the General Assembly Volume B is produced after the Assembly and contains accounts of Commission Meetings which were held together with other material The reports included in the present volume range from outline summaries to lengthy compilations and references Most reports are in English

**Nonlinear Dynamics and Chaos in Astrophysics** J. Robert Buchler, Stephen T. Gottesman, Henry E. Kandrup, 1998 Nonlinear dynamics and chaos pervade dynamical problems on all astrophysical scales ranging from the sun and solar system to galaxies and cosmology This volume the 13th in a series devoted to problems in nonlinear astronomy and physics presents the work of 18 senior scientists from around the world as well as that of several postdoctoral associates to honour their mentor and colleague George Contopoulos a seminal figure in this area of astrophysical research Some of the topics considered are plasma physics accelerator dynamics several formal problems in nonlinear dynamics and several applied to astronomical problems on cosmology accretion phenomena and the structure and evolution of galaxies

**Texas/ESO-CERN Symposium on Relativistic Astrophysics, Cosmology, and Fundamental Physics** John D. Barrow, Leon Mestel, Peter Andrew Thomas, 1991 This volume begins with 21 articles on the major topics recent developments and new results in astrophysics and relativity and features a paper on The Beginning of the Universe by S W Hawking In addition there are symposia on particle astronomy on neutron stars and black hole astrophysics and on large scale structure and galaxy formation

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problems of non linear electrodynamics nuclear physics and general relativity that are very important for astrophysics geophysics and cosmology In it new theoretical methods are proposed to solve the problems under consideration and to explain a number of puzzling experimental and observational data In the book the authors study the non linear equations of the Yang Mills theory and their applications to several unsolved problems of electrodynamics They find and investigate a non linear generalisation of the Yukawa meson theory to describe the phenomenon of nuclear saturation and various properties of nuclei They propose a generalised Dirac s equation to describe the quark structure and anomalous magnetic moments of nucleons They consider a number of unsolved problems of general relativity and study anomalous properties of gravitational waves Finally they find and investigate a generalisation of the Einstein gravitational equations based on Weyl s geometry to explain puzzling properties of spiral galaxies and to apply it to several unsolved problems of cosmology

*Nuclear Science Abstracts* ,1971-03     **Vistas in Astronomy** ,1992     **Proceedings of Symposia in Pure Mathematics** ,1986     **INIS Atomindex** ,1987     *Catalogue* American Mathematical Society,2000

## Unveiling the Power of Verbal Art: An Mental Sojourn through **Nonlinear Problems In Relativity And Cosmology**

In a global inundated with screens and the cacophony of instant transmission, the profound power and mental resonance of verbal beauty often disappear into obscurity, eclipsed by the constant assault of noise and distractions. However, set within the musical pages of **Nonlinear Problems In Relativity And Cosmology**, a captivating function of literary beauty that pulses with organic emotions, lies an memorable trip waiting to be embarked upon. Composed with a virtuoso wordsmith, this enchanting opus books visitors on an emotional odyssey, lightly exposing the latent potential and profound impact stuck within the intricate internet of language. Within the heart-wrenching expanse with this evocative evaluation, we shall embark upon an introspective exploration of the book is central styles, dissect their interesting writing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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