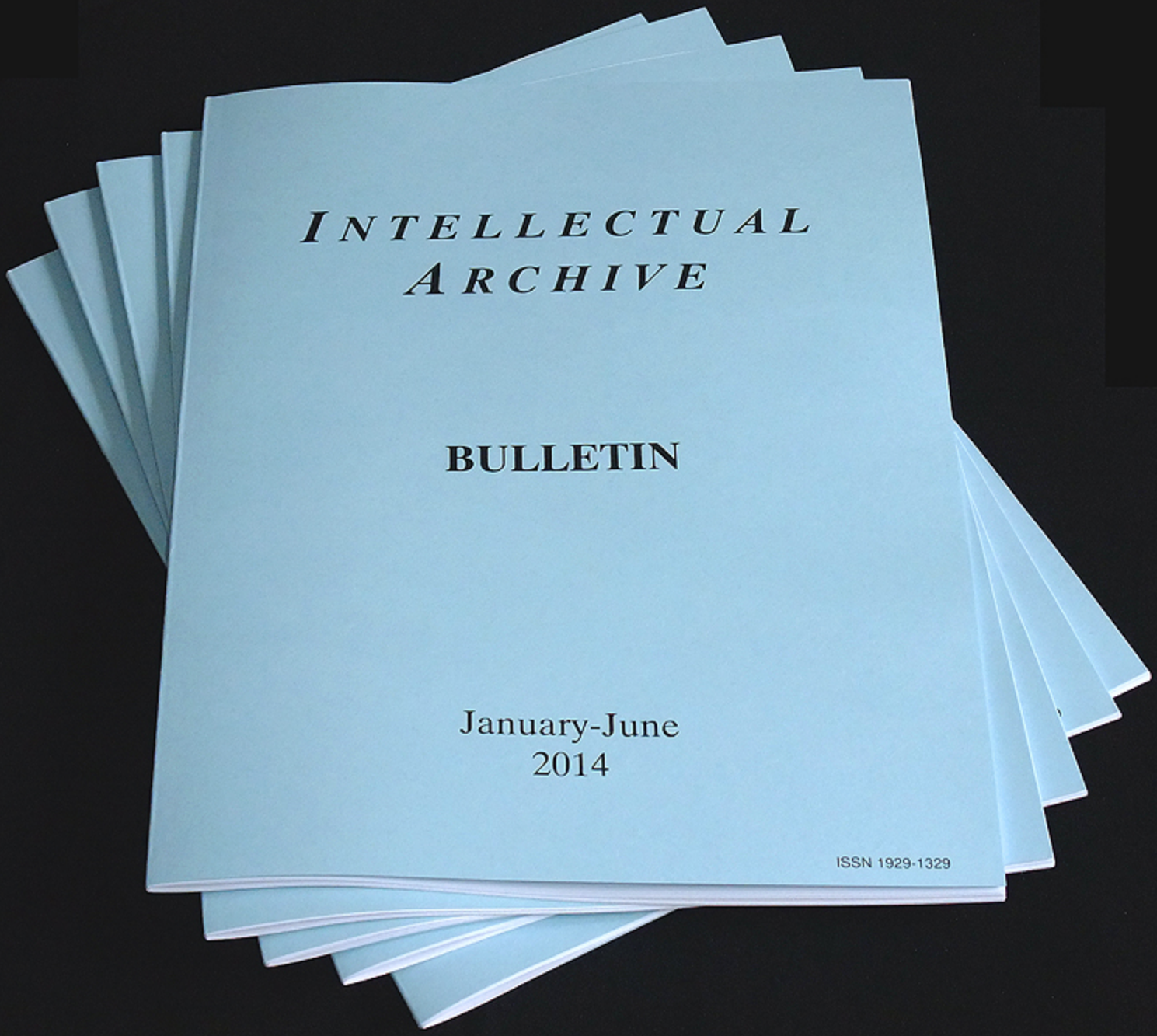
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ID #: 1144 **Natural Sciences / Physics / Relativity**

Submitted on: Oct 03, 2013

Author: **Daniele Sasso**

Title: **Physico-Mathematical Fundamentals of the Theory of Reference Frames**

Abstract: This paper represents the first essay belonging to the "Trilogy on the Knowable Universe". Main physico-mathematical fundamentals of the Theory of Reference Frames concerning kinematic, dynamic, electrodynamic and electromagnetic aspects of the physical reality, already introduced in previous papers, are presented here methodically. We demonstrate the importance for observer of reference frame in order to understand and to describe a physical event; we use new definitions of space, time, simultaneity and introduce the new concept of electrodynamic mass. We demonstrate besides an important relation between time and mass and a new expression for the relativistic mass.

Web link: ***www.IntellectualArchive.com/getfile.php?file=gfdjpXfLOKh&orig_file=Principles_TR.pdf***

ID #: 1145 **Literature / Fiction / Short stories**

Submitted on: Oct 06, 2013

Author: **Nabaneepa Chaudhuri**

Title: **Love unrequited**

Abstract: A girl had an infatuation or rather a love with her tutor. But finally, she came to know that he was made for some other girl. The girl went through some introspection about this incident.

Web link: ***www.IntellectualArchive.com/getfile.php?file=4kfWLqvgPGI&orig_file=rim-story.pdf***

ID #: 1147 **Social Sciences / Economics / Industrial organization**

Submitted on: Oct 08, 2013

Author: **Lozovskaya Nataliya**

Title: **THE ASSESSMENT OF TRENDS INTERNATIONAL STANDART ISO 14001 FOR COMPANIES**

Abstract: The article traced the dynamics of the number of certified organizations in the world by the international standard ISO 14001 and the dynamics of the number of certificates for environmental management system, which registered in the register and canceled UkrSEPRO. The aim is to analyze the implementation of a series of international standards ISO 14001 in companies, in the world and in Ukraine. The object of the study enterprises are certified according to international standards ISO 14001. During preparation of this research uses general scientific and special research methods, including observation, comparison, synthesis, classification and generalization.

Web link: ***www.IntellectualArchive.com/getfile.php?file=AplBiYjieXa&orig_file=Lozovskaya N.N..doc***

ID #: 1148 **Literature / Internet articles / Analysis of literature**

Submitted on: Oct 10, 2013

Author: **Yuri N. Klimov**

Title: **Hapax legomena in A.S. Pushkin, B.L. Pasternak, A.A. Ahmatov?° and I.A. Brodsky`s verses**

Abstract: Distinction of volumes of dictionaries and texts on hapax legomena in A.S .Pushkin, B.L .Pasternak, A.A. Ahmatov?° and I.A .Brodsky`s poetic products is shown. And volumes of dictionaries exceed volumes of texts from 3.05 (I.A.Brodsky verses 1957 - till winter of 1963) up to 1.07 times (A.A.Ahmatova "Plantain"). It is necessary to note, that verses 1957 - till winter of 1963. I.A.Brodsky under the relation of volume of the dictionary to volume of the text exceeds all investigated poetic products. It concerns and to a poem A«??he Fairy tale on tsar SaltanA» A.S. Pushkin that confirms

I.A.Brodsky and A.S. Pushkin`s genius that is marked in our early works. Under the relation of volume of the dictionary to volume of the text it is possible to reveal similarity of poetic language of the investigated poets: A.S. Pushkin - I.A. Brodsky, A.A. Ahmatova - A.S. Pushkin, A.A. Ahmatova - A.S Pushkin - I.A. Brodsky, A.S. Pushkin - A.A. Ahmatova, B.L. Pasternak - A.S. Pushkin, B.L. Pasternak - A.A. Ahmatova - A.S. Pushkin, B.L. Pasternak - A.A. Ahmatova and A.A. Ahmatova - B.L. Pasternak. The riches of the dictionary of poems of A.S.Pushkin "The Fairy tale on tsar Saltan" and "Ruslan and Lyudmila" are higher than collections of verses of B.L. Pasternak, A.A.Ahmatova and \I.??. Brodsky. It concerns and to A.A. Ahmatova`s poem "At the most dark blue sea" in comparison with collections of verses of A.A. Ahmatova and B.L. Pasternak.
Key words: volume of the dictionary, volume of the text, the attitude(relation) of volume of the dictionary to volume of the text, A.S.Pushkin, B.L.Pasternak, A.A.Ahmatova, I.A.Brodsky, Russian poetry,

Web link: ***www.IntellectualArchive.com/getfile.php?file=5oJMW1gQ4Ye&orig_file=Hapax legomena in A.S. Pushkin at all_JA_2013_docx.docx***

ID #: 1149 **Natural Sciences** / **Physics** / **Particle physics**

Submitted on: Oct 10, 2013

Author: **Ervin Goldfain**

Title: **Open Challenges of the Higgs Sector**

Abstract: Although highly accomplished experimentally, the Standard Model for particle physics (SM) carries a heavy load of unsettled questions. At least for the time being, the discovery of the Higgs boson - a crucial step in the validation of the SM a€“ does little to ease the burden of successfully closing these questions. With no clear roadmap in sight, the Higgs sector of particle physics remains a largely unexplored territory.

Web link: ***www.IntellectualArchive.com/getfile.php?file=Vnl4pYgTfmO&orig_file=Open Challenges of the Higgs Sector.pdf***

ID #: 1151 **Social Sciences** / **Psychology** / **Educational psychology**

Submitted on: Oct 14, 2013

Author: **Malkova Tetiana N.**

Title: **Professional development of the police officer personality**

Abstract: The subject of our research is professional development of personality of students in higher educational institutions of the Ministry of Internal Affairs of Ukraine (Kiev, Lviv, Kirovograd) using indirect method. Investigated were such points as: the dynamics of existing cadetsa€™ ideas about the behavior of police officers in acute conflict situations professionally significant; the dynamics of perception and assessment of the students of the features of professional activity; professional plans of cadets and emotional attitude to the profession of police officer.

Web link: ***www.IntellectualArchive.com/getfile.php?file=WG71gHroRda&orig_file=Professional development of the police officer personality.docx***

ID #: 1152 **Natural Sciences** / **Physics** / **Particle physics**

Submitted on: Oct 16, 2013

Author: **Ervin Goldfain**

Title: **Emergence of the Electroweak Scale from Fractal Spacetime**

Abstract: As of today, neither one of the mass generation mechanisms of the Standard Model (SM) can convincingly explain the source of the electroweak scale. In this brief report we argue that the onset of fractal spacetime near the electroweak interaction provides a natural motivation for the emergence of this scale.

Web link: ***www.IntellectualArchive.com/getfile.php?file=jaP3SLVqrWM&orig_file=Emergence of the Electroweak Scale from Fractal Spacetime.pdf***

ID #: 1153 **Social Sciences** / **Psychology** / **Educational psychology**

Submitted on: Oct 22, 2013

Author: **KRAVTSOVA TATYANA**

Title: **FEATURES OF DEVELOPMENT OF TEENAGERa€™PERSONALITY WITH DEVIATIONAL BEHAVIOUR**

Abstract: Results of work a€“ during this research work the following results were obtained and conclusions were made: 1. sense regulation of teenagers with deviational behaviour is not well-developed to provide self-control and self-possession; this leads to personality development breaking; 2. psychological correction of personality sense regulation has a large set of methods of influence , but for all that these methods dona€™t effect enough on teenager with deviational behaviour; 3. teenager with deviational behaviour studying in three localised schools have psychological differences in sense regulation development; 4. early in stage of deviation development when there is no proper behavioral deviation, it is possible to determine predisposition to a certain kind of deviational behaviour relying on the peculiarities of sense regulation development as the level of psychological development; 5. the work according to the program of psychological correction of sense regulation has essential influence on teenagers with deviational behaviour in case it is applied with united dialogic cognitive activity; 6. personality development of a teenager with deviational behaviour without correctional influence is defined by non-uniform of deviation strengthening and a€?freezinga€? of sense regulation on pre-personality level.

Web link: ***www.IntellectualArchive.com/getfile.php?file=1ie9cgKOOq6&orig_file=????N,??N€?µN,,?µN€?°N,(?sN€?°??N†?????° ???°N,N?N????° ???°N€?°N,???????°).doc***

ID #: 1158 **Natural Sciences / Astronomy / General physics**

Submitted on: Oct 31, 2013

Author: **Herbert Weidner**

Title: **The influence of the magnetic field in the Thomson Scattering**

Abstract: If an electromagnetic wave hits on electrons, so far only their reaction to the electric field component was calculated. By classical physics it can be shown that the electrons do not only perA-form the well-known transverse movement, but also a movement in the longitudinal direction at twice the frequency. This leads to an energy loss of the original electromagnetic wave without change of direction which was unknown up to now and has nothing to do with elastic or inelastic collision. The "lost" energy is radiated in two very different frequency ranges and the relative energy loss increases with decreasing frequency of the primary wave. An experimental confirmation of this phenomenon could influence the debate about a€?tired lighta€?.

Web link: ***www.IntellectualArchive.com/getfile.php?file=xiJ2q7Oegi4&orig_file=Thomson_Streuung_e.pdf***

ID #: 1159 **Natural Sciences / Physics / Particle physics**

Submitted on: Oct 31, 2013

Author: **Ervin Goldfain**

Title: **Dark Matter as Manifestation of "Unmatter"**

Abstract: Dark Matter is rooted in the underlying topology of fractal spacetime above the electroweak scale and may be understood as a manifestation of a€?Unmattera€?.

Web link: ***www.IntellectualArchive.com/getfile.php?file=Jw1NQxIgItP&orig_file=Dark Matter as Manifestation of Unmatter.pdf***

ID #: 1160 **Music / Music files .mp3/.wav/.wma ... / -Avant-Garde**

Submitted on: Nov 08, 2013

Author: **Mark Zilberman**

Title: **Movement from Piano concerto**

Abstract: Movement from Piano concerto

Web link: ***www.IntellectualArchive.com/getfile.php?file=JQIuOO1WFM1&orig_file=Concerto.mp3***

ID #: 1164 **Natural Sciences / Physics / General Physics**

Submitted on: Nov 11, 2013

Author: **Mikhail Kagan**

Title: **On Equivalent Resistance of Electrical Circuits**

Abstract: One of the basic tasks related to electrical circuits is computing equivalent resistance. In some simple cases, this task can be handled by combining resistors connected either in series or in parallel, until the original circuit reduces to a single element. When this is not possible, one resorts to the a€?heavy artillerya€? of Kirchhoff`s rules or method of nodal potentials. In this paper, we apply the latter method to derive - in a closed form - the equivalent resistance of a generic circuit. This result unveils a curious interplay between electrical circuits, matrix algebra, graph theory and its applications to computer science.

Web link: ***www.IntellectualArchive.com/getfile.php?file=mpO8LQAG3Sh&orig_file=On Equivalent Resistance_NEW.pdf***

ID #: 1166 **Literature / Internet articles / Analysis of literature**

Submitted on: Nov 19, 2013

Author: **Yuri N. Klimov**

Title: **Quantitative lexicology books of the Old Testament**

Abstract: On the basis of cumulative lengths of words and their frequencies, dependence of cumulative lengths of words and their frequencies on sequence of books, since the greatest researched size, dependence of average value of cumulative lengths of words and their frequencies computer quantitative lexical crossingover from sequence of books of the Old Testament, dependence of the natural logarithm of cumulative lengths of words and the natural logarithm of cumulative frequency of words for computer quantitative lexical crossingover from sequence of books, since the greatest researched size, dependence of the relation of relative speeds of cumulative length of words and cumulative frequency of words on sequence of books, since the greatest researched size, modeling of a point computer quantitative lexical crossingover cumulative lengths and frequencies of words on the linear and sedate equations are shown affinity and distinction of books of the Old Testament. Keywords: quantitative lexicology, Old Testament, quantity of words, frequency of words, length of words, dynamics of quantity of words, dynamics of length of words, average length of words, cumulative quantity of words, cumulative frequency of words, modeling, linear dependence, sedate dependence, logarithmic dependence, polynoms of the second degree, polynoms of the third degree.

Web link: ***www.IntellectualArchive.com/getfile.php?file=JLJN1BeB1Go&orig_file=Quantitative lexicology books of the Old Testament_IA_2013_docx.docx***

ID #: 1167 **Natural Sciences / Mathematics / Computation**

Submitted on: Nov 19, 2013

Author: **N.Ravshanov, D.K.Sharipov**

Title: **A PHYSICAL SPLITTING METHOD FOR THE SOLUTION OF A PROBLEM OF SPREAD OF HARMFUL SUBSTANCES INTO THE ATMOSPHERE**

Abstract: In the work of research, forecasting and monitoring of the air mass of the atmosphere of industrial regions, a mathematical model and an efficient numerical algorithm, based on the method of splitting into physical processes, is developed and analysis are done by numerical calculations on a computer.

Web link: ***www.IntellectualArchive.com/getfile.php?file=XRVh0klfvsu&orig_file=formula_rashipleniya_ang.doc***

ID #: 1168 **Natural Sciences / Chemistry / Pharmacy**

Submitted on: Nov 21, 2013

Author: **V.M. Odintsova, A.A Safonov, Ye.S Pruhlo, O.I. Panasenko, Ye.G. Knysh, T.V. Panasenko**

Title: **SYNTHESIS AND STUDY OF THE ACTOPROTECTIVE ACTIVITY OF 4-R-5-ADAMANTANE-1-YL-3(ALKYLTHIO)-4-H-1,2,4-TRIAZOLES,2-(4-R-5-ADAMANTANE-1-YL-4H-1,2,4-TRIAZOLE-3-YLTHIO)ACETIC ACIDS AND THEIR SALTS**

Abstract: Synthesized new S-derivatives of 5-(adamantane-1-yl)-4-R-4H-1,2,4-triazoles-3-thiols: 3-alkyl-5-(adamantane-1-yl)-4-R -4H-1,2,4-triazoles, 2-(5-(adamantane-1-yl)-4-R-4H-1,2,4-triazoles-3-iltio)acetate acids and their salts, where R-methyl, phenyl. It studied the structure and physico-chemical properties of the synthesized compounds, investigated their actoprotective activity.

Web link: ***www.IntellectualArchive.com/getfile.php?file=lHw4jMJJ3gh&orig_file=SYNTHESIS AND STUDY OF THE ACTOPROTECTIVE ACTIVITY OF***

4-R-5-ADAMANTANE-1-YL-3(ALKYLTHIO).pdf

ID #: 1169 **Literature / Internet articles / Analysis of literature**

Submitted on: Nov 24, 2013

Author: **Yuri N. Klimov**

Title: **At h-point books of the Old Testament**

Abstract: Research is lead on the basis of a technique and texts of electronic books of the Old Testament. Parameters of h-point I.-J. Popescu - G. Altmann in books of the Old Testament under the following characteristics are considered: ?°verage coordinates of a h-point; N?umulative frequency of words; size of riches of the dictionary 1-F(h); size of homogeneity of the text (a = N/h2).
Key words: Average to coordinates of a h-point, modeling dependence of riches of the dictionary of the text, the book of the Old Testament, homogeneity of the text, modeling of size of homogeneity of the text, the linear equation, the sedate equation, exponential the equation, a polynoms of the second degree, a polynoms of the third degree, relative speed of homogeneity of the text, relative exponential speed of homogeneity of the text, relative speed of riches of the dictionary of the text, relative exponential speed of riches of the dictionary of the text.

Web link: ***www.IntellectualArchive.com/getfile.php?file=L8iROB7RmK3&orig_file=At h-point books of the Old Testament_IA_2013.docx***

ID #: 1170 **Natural Sciences / Mathematics / Statistics**

Submitted on: Nov 26, 2013

Author: **N.P. Kopytov, E.A. Mityushov**

Title: **The method for uniform distribution of points on surfaces in multi-dimensional Euclidean space**

Abstract: The problem of uniform distribution of points on surfaces in multi-dimensional Euclidean space is considered. Method for uniform distribution of points on analytic surfaces defined by the parametric method in multi-dimensional Euclidean space is proposed. The proposed method can be used for uniform distribution of points on the hypersphere and hyperellipsoid, as an additional method to already existing, and for the uniform distribution of points on the other parametric surfaces in a multidimensional Euclidean space. Due to generality the proposed method can be also used for uniform distribution of points on curves in a multi-dimensional Euclidean space. The method also works in three-dimensional physical space which is an ordinary for the human perception, and certainly it can be applied to a uniform distribution of points on curves and surfaces in three dimensional space for various scientific problems.

Web link: ***www.IntellectualArchive.com/getfile.php?file=SuMeKXAOiLM&orig_file=The method for uniform distribution of points on surfaces in multi-dimensional Euclidean space.pdf***

ID #: 1172 **Natural Sciences / Astronomy / General physics**

Submitted on: Dec 02, 2013

Author: **Alexander Bolonkin**

Title: **Stability and Production Super-Strong AB-matter**

Abstract: In works [1-3] author offered and considered possible super strong nuclear matter. In given work he continues to study the problem of a stability and production this matter. He shows the special artificial forms of nuclear AB-matter which make its stability and give the fantastic properties. For example, by the offered AB-needle you can pierce any body without any damage, support motionless satellite, reach the other planet, and research Eartha€™s interior. These forms of nuclear matter are not in nature now, and nanotubes are also not in nature. The AB-matter is also not natural now, but researching and investigating their possibility, properties, stability and production are necessary for creating them.

Web link: ***www.IntellectualArchive.com/getfile.php?file=eiljhuNxjAE&orig_file=Article2 Stability AB matter 11 13 13.docx***

ID #: 1174 **Natural Sciences / Astronomy / Cosmology**

Submitted on: Dec 10, 2013

Author: **Vladimir V. Kosarev**

Title: **PhD, Senior Researcher**

Abstract: All modern cosmological Big Bang models based on idea of transition from initial de Sitter world to the world of Friedman. But symmetries of Friedman and de Sitter spaces are quite fundamentally different. Although in both spaces the vacuum density can be function of time because of matter creating, but such quasi-static de Sitter space has to have high symmetry of the flat Minkovski space. In contrast to de Sitter, the Friedman space is expanding with t axis strait perpendicular to hyper-surface of equal density. It makes to think, that this transition between de Sitter and Friedman spaces is not to be smooth, but has a character of global topological phase transition. So the point t = 0 marcs not a time of our Universe origin, but the origin of Friedman epoch in the history of our Universe after prehistory period of quantum de Sitter world.

Web link: ***www.IntellectualArchive.com/getfile.php?file=DcUVFg030dU&orig_file=Alternative model 13.doc***

ID #: 1175 **Natural Sciences** / **Physics** / **General Physics**

Submitted on: Dec 19, 2013

Author: **John C. Hodge**

Title: **Scalar Theory of Everything model correspondence to the Big Bang model and to Quantum Mechanics**

Abstract: We are at a special moment in our scientific evolution that requires the big of cosmology and the small of light and of particle physics be united by a single model. The Scalar Theory of Everything model (STOE) suggests fundamental assumptions with consideration for the successful parts of current models and for the data inconsistent with current models. The STOE is simpler, corresponds to both General Relativity and quantum mechanics, and solves many current mysteries and inconsistencies. Therefore, the STOE is founded on orthodox science. Data analysis in 2011 confirmed predictions of the STOE made in 2006 that no other model suggested.

Web link: ***www.IntellectualArchive.com/getfile.php?file=idWEnZLMnAj&orig_file=mse35.pdf***

ID #: 1176 **Social Sciences** / **Other** / **Management**

Submitted on: Dec 22, 2013

Author: **Vladislav Tsyganok**

Title: **Information Management Model for preparation (training) and competitive activity in the superior level Handball.**

Abstract: Information Management Model for preparation (training) and competitive activity in the superior level Handball.

National Technical University, Zaporizhzhya, Ukraine

Abstract.
The paper presents the methodology to perform diagnosis and analysis of Handball game results based on an automated information collection system with proprietary statistical-analytical method. Studies have been executed during the Ukrainian Handball Super League Men Championship in six cities across the country. Analysis has been processed on 7 teams in 12 games each with total of 143 athletes.

Web link: ***www.IntellectualArchive.com/getfile.php?file=KVjpDfu6Hkj&orig_file=Information Management Model - Vladislav Tsyganok.pdf***

ID #: 1178 **Natural Sciences** / **Physics** / **Atomic theory**

Submitted on: Dec 25, 2013

Author: **Alexander Bolonkin**

Title: **Stability and Production Super-Strong AB-matter**

Abstract: In works [1-3] author offered and considered possible super strong nuclear matter. In given work he continues to study the problem of a stability and production this matter. He shows the special artificial forms of nuclear AB-matter which make its stability and give the fantastic properties. For example, by the offered AB-needle you can pierce any body without any damage, support motionless satellite, reach the other planet, and research Eartha€™s interior. These forms of nuclear matter are not in nature now, and nanotubes are also not in nature. The AB-matter is also not natural now, but researching and investigating their possibility, properties, stability and production are necessary for creating them.

Web link: ***www.IntellectualArchive.com/getfile.php?file=lUgq2bTLolL&orig_file=Article2 Stability AB***

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ID #: 1179 **Natural Sciences / Physics / General Physics**

Submitted on: Dec 27, 2013

Author: **Alejandro A. Torassa**

Title: **Angular Magnitudes**

Abstract: In classical mechanics, this paper presents alternative definitions of angular magnitudes.

Web link: ***www.IntellectualArchive.com/getfile.php?file=HOlvebFLfcj&orig_file=angular.pdf***

ID #: 1180 **Natural Sciences / Physics / General Physics**

Submitted on: Dec 27, 2013

Author: **Alejandro A. Torassa**

Title: **Principle of Conservation**

Abstract: In classical mechanics, this paper presents a new principle of conservation for frontal elastic collisions, which can be applied in any inertial reference frame.

Web link: ***www.IntellectualArchive.com/getfile.php?file=xk8hsKTcgrC&orig_file=principle.pdf***

ID #: 1182 **Natural Sciences / Physics / Quantum field theory**

Submitted on: Dec 28, 2013

Author: **Ervin Goldfain**

Title: **Limitations of Perturbative Renormalization and the Challenges of the Standard Model**

Abstract: In contrast with the paradigm of effective Quantum Field Theory (EFT), realistic Renormalization Group (RG) flows approaching fixed points are neither perturbative nor linear. We argue that overlooking these limitations is necessarily linked to many unsolved puzzles challenging the Standard Model of particle physics (SM). Here we show that the analysis of non-linear attributes of RG flows near the electroweak scale can recover the full mass and flavor structure of the SM. It is also shown that this analysis brings closure to the a€?naturalnessa€? puzzle without impacting the cluster decomposition principle of EFT.

Web link: ***www.IntellectualArchive.com/getfile.php?file=jh9kDeWiweP&orig_file=Limitations of Perturbative Renormalization and the Challenges of the Standard Model.pdf***

ID #: 1183 **Literature / Internet articles / Analysis of literature**

Submitted on: Dec 30, 2013

Author: **Yuri N. Klimov**

Title: **About hapax legomena in books of the Old Testament**

Abstract: The Old Testament is the collection of 40 sacred books incorporated by one name, and is defined by various quantity hapax legomena in them. The quantity hapax legomena in all the Old Testament in 3,05 times is less, than in all separately 40 books that speaks their duplication. The various quantity of groups of close books of the Old Testament with non-uniform quantity hapax legomena is marked depending on used techniques. The share hapax legomena volumes of dictionaries of books of the Old Testament exceeds a share hapax legomena volumes of the text as it has been shown earlier in our works and is proved graphically, curve N (F=1)/V is above curve N (F=1)/N. The lead modeling on linear, logarithmic, exponential and to the sedate equations, and also on polynoms of the second and third degree has revealed similarity and distinction hapax legomena the investigated books of the Old Testament. Relative exponential speed hapax legomena the investigated books of the Old Testament on exponential to the equation is much lowers its relative than speed on the sedate equation that confirms our earlier lead researches for other literary texts. Transition of books of the Old Testament on hapax legomena from one zone of distribution Bradford in another, except for a zone of "nucleus", that is from III-it in II-it a zone is shown, that indirectly confirms P.M. Alekseev`s assumption that many rare words move to average circles of the frequency word book and there is a

change of character of dependence a rank - frequency.
Key words: hapax legomena, 40 books, the Old Testament, duplication, a share of volumes of dictionaries, a share of volumes of the text, curve N (F=1)/V, curve N (F=1)/N, modeling, the linear equation, the logarithmic equation, exponential the equation, the sedate equation, a polynoms of the second degree, a polynoms of the third degree, similarity and distinction hapax legomena, relative speed, relative exponential speed, the relation hapax legomena shares of volume of texts to hapax legomena shares of volume of the dictionary, quantitative-system research of lexicon, lexicon, quantitative lexicology, system research of lexicon.

Web link: ***www.IntellectualArchive.com/getfile.php?file=OTinplhMAOh&orig_file=About hapax legomena in books of the Old Testament_IA_2013docx.docx***

ID #: 1184 **Natural Sciences / Physics / General Physics**

Submitted on: Dec 31, 2013

Author: **Alejandro A. Torassa**

Title: **Moment of Inertia**

Abstract: This paper presents an equation to calculate the moment of inertia of a system of particles with respect to the unit position vector ri.

Web link: ***www.IntellectualArchive.com/getfile.php?file=t8MZQDuadrM&orig_file=unit.pdf***

ID #: 1185 **Natural Sciences / Physics / Astrophysics**

Submitted on: Dec 31, 2013

Author: **Ervin Goldfain**

Title: **On a possible evidence for Cantorian space-time in cosmic rays astrophysics**

Abstract: It is known that invariance under Lorentz transformations is a fundamental principle underlying both relativity and quantum field theory. It has been recently suggested that global Lorentz invariance is only an approximate symmetry of nature that may be broken for subnuclear particles participating in high-energy interactions. In particular, several research groups have argued that violation of Lorentz invariance may provide a satisfactory answer to anomalies reported in the detection of ultrahigh energy cosmic rays (UHECR) and TeV-photon spectra. Since breaking of Lorentz invariance amounts to a manifest violation of relativity, it is highly desirable to search for alternative explanations of these anomalies. Our work suggests a possible solution that complies with relativity and is consistent with the Cantorian geometry of spacea€"time at high-energy scales.

Web link: ***www.IntellectualArchive.com/getfile.php?file=Yn208BjTYYh&orig_file=OnapossibleevidenceforCantorianspace-timeincosmicrayastrophysics.pdf***

ID #: 1186 **Natural Sciences / Earth Sciences / Environmental science**

Submitted on: Jan 03, 2014

Author: **Ph.D Khodakov V., Ph.D Sokolova N., Ph.D Cherney S.**

Title: **Impact of climatic factors on the socio-economic and production systems**

Abstract: Climatic factors and the location of the states are important for the historical fate and prospects of development of nations and states. However, in today`s world the influence of climatic factors, from our point of view, undervalued. Climatic factors, geographical environment, location of the state, if not dominant, then one of the most significant factors affecting the economy and the development of nations.
Features of world nations are also associated with their history, in which the geographical environment and climatic factors play a crucial role.
In today`s world due to the development of science, engineering and technology some what diminished role and weight of the climatic factors, but they still play an important, although not a decisive role, as before.
Analysis of the influence of climatic factors makes it possible to note the following: the impact of climatic factors can be strengthened or weakened depending on factors such as the unity or disunity of society, social tension in society, separation, conflict or conflict-free, increasing poverty and welfare, and etc.
So vigorous activity of any state to maintain its economy, lack of social tension in society can reduce or block negative phenomena caused by climatic factors. It is therefore necessary to study and

consideration of such phenomena.
Ignoring the influence of climatic factors, improper accounting consequences of climate change pose a risk to humans, agriculture, water, recreational farming, construction and industry. Unfortunately, researching, analyzing and assessing the impact of climatic factors on human activity, the functioning and development of socio-economic and production systems devoted very little literature. In Ukraine, these issues were virtually out of sight of research.

Web link: ***www.IntellectualArchive.com/getfile.php?file=CAGKindNVQ6&orig_file=Climat Ukraine Cherney.pdf***

ID #: 1188 **Natural Sciences / Physics / General Physics**

Submitted on: Jan 06, 2014

Author: **Alejandro A. Torassa**

Title: **Angular Potential Energy**

Abstract: This paper presents an equation to calculate the angular potential energy of a particle.

Web link: ***www.IntellectualArchive.com/getfile.php?file=wUaYLrfiHfd&orig_file=Potential.pdf***

ID #: 1189 **Natural Sciences / Physics / General Physics**

Submitted on: Jan 06, 2014

Author: **Alejandro A. Torassa**

Title: **Angular Mechanical Energy**

Abstract: This paper presents the principle of conservation of the angular mechanical energy for a particle which moves in a uniform force field.

Web link: ***www.IntellectualArchive.com/getfile.php?file=gHd0UrHPepJ&orig_file=Mechanical.pdf***

ID #: 1190 **Natural Sciences / Physics / General Physics**

Submitted on: Jan 06, 2014

Author: **Alejandro A. Torassa**

Title: **Principle of Least Angular Action**

Abstract: This paper presents the principle of least angular action.

Web link: ***www.IntellectualArchive.com/getfile.php?file=nbNLhthJSPm&orig_file=Action.pdf***

ID #: 1192 **Natural Sciences / Astronomy / Cosmology**

Submitted on: Jan 09, 2014

Author: **Alexander Bolonkin**

Title: **a€?Universe (Part 3). Relations between Charge, Time, Matter, Volume, Distance, and Energya€?**

Abstract: In Universe (Part 1)[1] author has developed a theory which allows derivation of the unknown relations between the main parameters (energy, time, volume, matter) in the Universe. In given part 3 he added charge as main parameter in this theory. He finds also the quantum (minimal values) of energy, time, volume and matter and he applied these quantum for estimations of quantum volatility and the estimation of some values of our Universe and received both well-known and new unknown relations.
Author offers possibly valid relations between charge, time, matter, volume, distance, and energy. The net picture derived is that in the Universe exists ONLY one substance a€“ ENERGY. Charge, time, matter, volume, fields are evidence of this energy and they can be transformed one to other. Author gives the equations which allow to calculate these transformation like the famous formula E = mc2. Some assumptions about the structure of the Universe follow from these relations.

Most offered equations give results close to approximately known data of Universe, the others allow checking up by experiment.
Key words: Universe, time, matter, volume, distance, energy; limits of specific density of energy, matter, pressure, temperature, intensity of fields; collapse of space and time into point.

Web link: ***www.IntellectualArchive.com/getfile.php?file=gwBJfgtbOeS&orig_file=Article Universe3 after Friedlander 01 09 14.doc***

ID #: 1193 **Natural Sciences / Physics / Gravitation Theory (Relativity)**

Submitted on: Jan 15, 2014

Author: **Alexander Shalyt-Margolin**

Title: **Spacetime Fluctuations, Quantum Field Theory with UV-cutoff and Einstein Equations**

Abstract: It has been demonstrated that spacetime quantum fluctuations may impose fairly severe restrictions on minimal variations in the fundamental physical quantities of gravity. Also, it has been found that they are naturally described in terms of the deformation parameter introduced on going from the well-known quantum mechanics to that at Plancka€™s scales and put forward in the previous works of the author. As shown, with the use of quite natural assumptions, these fluctuations must be allowed for in Einstein Equations to lead to the dependence of the latter on the above-mentioned parameter, that is insignificant and may be ignored at low energies but is of particular importance at high energies. Besides, some inferences form the obtained results have been drawn. The derived results offer a better insight into the common nature of gravity both at high and low energies.

Web link: ***www.IntellectualArchive.com/getfile.php?file=qjtCwBlguT1&orig_file=Shalyt-Fluctuatuon2.pdf***

ID #: 1195 **Natural Sciences / Physics / General Physics**

Submitted on: Jan 17, 2014

Author: **Alejandro A. Torassa**

Title: **Linear Magnitudes**

Abstract: In classical mechanics, this paper presents definitions of linear magnitudes from vector magnitudes.

Web link: ***www.IntellectualArchive.com/getfile.php?file=cNCJGjpft2C&orig_file=Linear.pdf***

ID #: 1196 **Visual Art / Applied Arts / Dance**

Submitted on: Jan 17, 2014

Author: **Pet`ko Lyudmila, Shpota Yevgenia**

Title: **ISADORA DUNCAN AND SERGEY ESENIN**

Abstract: Annotation
This article is devoted to describing of creative work in modern dance by Isadora Duncan. The aim of the article is to provide the reader some material on famous modern dancer Isadora Duncan as woman, dancer, choreographer, dance teacher. The authors draw to the conclusion Isadora Duncana€™s role in development of world dance art and her love to Sergey Esenin.
Key words: modern dance, Isadora Duncan, choreographer, dancer, modern dance techniques, Sergei Esenin, poems.

Web link: ***www.IntellectualArchive.com/getfile.php?file=X0Z4opJlNln&orig_file=N?N,?°N,N?N? Pet'ko L., Spota 17.01.14.docx***

ID #: 1197 **Natural Sciences / Mathematics / Algebra**

Submitted on: Jan 18, 2014

Author: **Harish Chandra Rajpoot**

Title: **Problem Statement by H.C. Rajpoot**

Abstract: Problem Statement by Harish Chandra Rajpoot

Web link: ***www.IntellectualArchive.com/getfile.php?file=E9gf5W2XbJr&orig_file=Problem Statement by Harish Chandra Rajpoo-2.pdf***

ID #: 1198 **Social Sciences / Education / Technology**

Submitted on: Jan 19, 2014

Author: **Salima Seitenova**

Title: **The use of interactive methods of training as a priority direction of education**

Abstract: The article considers the changes in the education system, the preconditions for the use of interactive methods and forms of training, requirements to teachers and future specialists in accordance with transformations in the training. The article presents some of the interactive teaching methods, that promote students` activity, some types of lectures, seminars and exercises that can be that can be used in the classroom teaching methods courses. The possibilities and the practical value of using these methods in the system of higher education are considered. Interactive teaching methods discussed in the article aimed at improving the cognitive activity of students and their motivation for teaching and professional activities. They allow you to move from passive learning to active use in real situations of professional activity, which certainly improves the quality of training of the future specialists, contributes to the successful activity.
Key words: cognitive activity, success, competence, case study, role-play, communication, interactive methods, the methodology.

Web link: ***www.IntellectualArchive.com/getfile.php?file=ZQxQwh5EhiU&orig_file=Seitenova.doc***

ID #: 1199 **Natural Sciences / Physics / General Physics**

Submitted on: Jan 20, 2014

Author: **Khaidarov G. G., Khaidarov A. G.**

Title: **The physical nature of liquid surface tension**

Abstract: It is proved that the physical concept of liquid surface tension is a part of the concept of internal energy. The physical model of liquid evaporation and formula obtained for calculating surface tension of the liquid are suggested. The formula was tested on reference values for 64 substances in the temperature range from a?'253 to +200 degrees Celsius. A unii¬?ed concept for physical notions of surface tension and the internal energy of the liquid is also obtained. A physical model is agreed with the views of the other authors. The result of this model is formulas for calculating values of specii¬?c heats for one- and two atomic gas. It was proved that surface tension is a part of internal energy. As a result a theoretical model is suggested and a theoretical calculation between surface tension and temperature is established. This dependence is confirmed by calculation of empirical data from the reference manual of thermophysical properties.

Web link: ***www.IntellectualArchive.com/getfile.php?file=HX8qmZVWj2W&orig_file=surface_tension_of_the_liquid_2.doc***

ID #: 1201 **Natural Sciences / Mathematics / Statistics**

Submitted on: Jan 20, 2014

Author: **Lukas Pavelek**

Title: **The advantages of using PSPP a€“ the open-source alternative for statistical data processing**

Abstract: The article presents the possibilities of using open-source software PSPP, which is designed for statistical analysis of research data. PSPP is a freeware alternative to the widely known and used software SPSS. The advantage of PSPP is that it is legally available for free and works with unlimited amount of data. PSPP can perform descriptive statistics, T-tests, anova, linear and logistic regression, cluster analysis, factor analysis, non-parametric tests and more. Its backend is designed to perform its analyses as fast as possible, regardless of the size of the input data.

Web link: ***semi-private registratrion***

ID #: 1202 **Natural Sciences / Astronomy / economic**

Submitted on: Jan 21, 2014

Author: **Peta€™ko Stanislav Mikhailovich**

Title: **The essence of the transnational corporations in the modern economy development**

Abstract: This article presents the study of the transnational corporations in the world economy. Transnational corporations play one of the leading role in the development of economy in different countries, in this case in home countries and in host countries. By the way, the major feature of the TNCs lies on their ability to build an integrated global space.
Keywords: globalization, multinational, Transnational corporation (TNCs), foreign investments, European Common Market, transfer prices, Internal Revenue Service (IRS), home country, host country, foreign affiliate, assets, investors.

Web link: ***www.IntellectualArchive.com/getfile.php?file=E6qfS2rl8L2&orig_file=???? ??N€N???N? Pet'ko Stanislav (Economic).doc***

ID #: 1203 **Natural Sciences** / **Physics** / **General Physics**

Submitted on: Jan 22, 2014

Author: **Alejandro A. Torassa**

Title: **Scalar Equation of Motion**

Abstract: In classical mechanics, this paper presents a scalar equation of motion, which can be applied in any reference frame (rotating or non-rotating) (inertial or non-inertial) without the necessity of introducing fictitious forces.

Web link: ***www.IntellectualArchive.com/getfile.php?file=DlcXKX3ahP8&orig_file=Scalar.pdf***

ID #: 1204 **Natural Sciences** / **Mathematics** / **Algebra**

Submitted on: Jan 22, 2014

Author: **Harish Chandra Rajpoot**

Title: **HCR Rank or Series Formula**

Abstract: A set formula named as HCRa€™s Rank Formula or HCRa€™s Series Formula has been derived by inverse relation. It is an expansion formula based on logistics of which each term corresponds to a certain letter of an alphabetic word or a certain non-zero digit of a positive integral number.

Web link: ***www.IntellectualArchive.com/getfile.php?file=jbV4U8KjSX4&orig_file=Problem Statement by Harish Chandra Rajpoot.pdf***

ID #: 1205 **Natural Sciences** / **Physics** / **General Physics**

Submitted on: Jan 24, 2014

Author: **Alejandro A. Torassa**

Title: **A Scalar Equation of Motion**

Abstract: In classical mechanics, this paper presents a scalar equation of motion, which can be applied in any reference frame (rotating or non-rotating) (inertial or non-inertial) without the necessity of introducing fictitious forces.

Web link: ***www.IntellectualArchive.com/getfile.php?file=effXRYrXEnJ&orig_file=Scalar2.pdf***

ID #: 1207 **Natural Sciences** / **Physics** / **Particle physics**

Submitted on: Jan 26, 2014

Author: **Ervin Goldfain**

Title: **Fractional Dynamics, Cantorian Space-Time and the Gauge Hierarchy Problem**

Abstract: The gauge hierarchy problem refers to the large numerical disparity between the Planck scale and the scale of electroweak symmetry breaking. Explaining the hierarchy paradox has been attempted so far in quantum field models based on supersymmetry (SUSY) or higher dimensional spacea€“time (brane theories). Despite several years of experimental search, there is currently no validation for either one of these models. We approach the hierarchy paradox using the methodology of fractal operators in four-dimensional spacea€“time. It is found that departure from the inverse-square gravity in the high-energy regime emerges naturally from the fractional Helmholtz equation and suggests a

straightforward resolution to the problem. Our work makes an explicit connection between the hierarchy problem and fractal geometry of spacea€“time on deep ultraviolet scales.

Web link: ***www.IntellectualArchive.com/getfile.php?file=oMxMPvkfLit&orig_file=Fractional Dynamics, Cantorian Space-Time and the Gauge Hierarchy Problem.docx***

ID #: 1208 **Social Sciences / Economics / Marketing**

Submitted on: Jan 26, 2014

Author: **Dragan Alina**

Title: **PRICING FEATURES ON THE MEAT PROCESSING ENTERPRISES**

Abstract: Basic factors that form modern price behavior of meat processing industry of the enterprises: Ukraine entering to WTO; strengthening of vertical integration; wide differentiation of meat products; changes of populationa€™s profit; marketing technologies in pricing conceptions; development of electronic business are described.
The offered basic factors that influence on pricing allow to optimize the pattern of prices that will assist to establish effective price politics of the enterprise of meat processing industry: social character of industry products (to the products); levels of profit and purchasing demand of population; absence of the proper state control of prices; dependence of prices on the products of meat processing industry from charges and prices of suppliersa€™ raw material; intensity of competition on meat products in the world and national markets; a permanent search of ways of the cost reduction on production and realization of these products.

Web link: ***www.IntellectualArchive.com/getfile.php?file=T6s0wQ9mqg8&orig_file=Article A. Dragan docx.docx***

ID #: 1209 **Natural Sciences / Physics / General Physics**

Submitted on: Jan 27, 2014

Author: **Alejandro A. Torassa**

Title: **A Linear Equation of Motion**

Abstract: In classical mechanics, this paper presents a linear equation of motion, which can be applied in any reference frame (rotating or non-rotating) (inertial or non-inertial) without the necessity of introducing fictitious forces.

Web link: ***www.IntellectualArchive.com/getfile.php?file=KpmxM8ZmL22&orig_file=Linear2.pdf***

ID #: 1210 **Philosophy / Metaphysics / Cosmology**

Submitted on: Feb 01, 2014

Author: **Vladimir V. Kosarev**

Title: **Synergetic Cosmological Model of the Universe**

Abstract: The model of the Universe as self-organizing system is discussed. This process leads to the formation of a hierarchy of nested increasingly complex systems. Following the elementary particles are systems with significantly increased complexity and degree of order. This atoms, chemical molecules, and then information (or cybernetic) systems - biological molecules, live cells and multicellular organisms. Next come the humans, family, clan, tribe, people, nation, civilization. Matter of the Universe also has a hierarchical structure, quarks, hadrons (protons and neutrons), atoms, molecules, etc. up to clusters of galaxies. The model allows to combine into a single system of knowledge from all partitions: space-time physics, elementary particle, nuclear and atomic physics, inorganic and organic chemistry, biochemistry, bio-evolution. the sciences of man and society, including the history of the evolution of human consciousness and cognition.

Web link: ***www.IntellectualArchive.com/getfile.php?file=dMKIKIPBdLZ&orig_file=Synergetic universe.doc***

ID #: 1211 **Philosophy / Metaphysics / Cosmology**

Submitted on: Feb 01, 2014

Author: **Vladimir V. Kosarev**

Title: **???????µN€???µN,??N‡?µN????°N? ???????µ?»N? ?'N??µ?»?µ????????**

Abstract: ?z?±N?N??¶???°?µN,N?N? ???????µ?»N? ?'N??µ?»?µ???????? ???°?? ?±???»N?N?????

N???N?N,?µ??N‹, ??N€??N†?µN?N? N??°??????N€???°?????·?°N†???? ?? ????N,??N€???? ???µ???µN, ?? ???±N€?°?·?????°????NZ ???µN€?°N€N…???? ??N??µ ?±???»?µ?µ N??»???¶??N‹N… N???N?N,?µ??. ?'N??»?µ?? ?·?° N??»?µ???µ??N,?°N€??N‹???? N‡?°N?N,??N†?°???? ????N?N, ?°N,????N‹, N…??????N‡?µN??????µ ?????»?µ??N??»N‹, ?° ?·?°N,?µ?? ?? ?±???»?µ?µ N??»???¶??N‹?µ ????N„??N€???°N†????????N‹?µ (???»?? ?????±?µN€???µN,??N‡?µN??????µ) N???N?N,?µ??N‹ - ?±?????»??????N‡?µN??????µ ?????»?µ??N??»N‹, ?¶????N‹?µ ???»?µN,???? ?? ??????????????»?µN,??N‡??N‹?µ ??N€???°?????·??N‹. ?"?°?»?µ?µ ????N?N, N‡?µ?»?????µ??, N??µ??N?N?, N€????, ???»?µ??N?, ???°N€????, ???°N†??N?, N†????????»???·?°N†??N?. ???°N,?µN€??N? ?'N??µ?»?µ??-?????? ?????µ?µN, N,?°???¶?µ ???µN€?°N€N…??N‡?µN???N?NZ N?N,N€N???N,N?N€N?: ?????°N€????, ?°??N€????N‹ (??N€??N,????N‹ ?? ???µ??N,N€????N‹), ?°N,????N‹, ?????»?µ??N??»N‹ ?? N,.??. ???? N????????»?µ?????? ???°?»?°??N,????. ???°N?N?N,?°?±N‹ ?? N?N,???? ????N??»?µ???????°N,?µ?»N?????N?N,?? N????µ?»??N‡?????°NZN,N?N? ?? ???µ?????µN,N€??N‡?µN??????? ??N€????N€?µN?N?????. ???????µ?»N? ?????·?????»N??µN, ???±NS?µ????????N,N? ?? ?µ??????N?NZ N???N?N,?µ??N? ?·???°?????? ??N??µ ??N… N€?°?·???µ?»N‹ ??N, N„???·?????? ??N€??N?N,N€?°??N?N,???°-??N€?µ???µ????, N??»?µ???µ??N,?°N€??N‹N… N‡?°N?N,??N†, N????µN€?????? ?? ?°N,?????????? N„???·??????, ???µ??N€???°????N‡?µN??????? ?? ??N€???°????N‡?µN??????? N…????????, ?±????N…????????, ?±????N??????»NZN†???? ???? ???°N??? ?? N‡?µ?»?????µ???µ ?? ???±N‰?µN?N,???µ, ?????»NZN‡?°N? ??N?N,??N€??NZ N??????»NZN†???? N‡?µ?»?????µN‡?µN????????? N????·???°????N? ?? ?????·???°????N?, ???°?????·N‹???°N? ??N??µN… ??N… ???° ???±N‰???? N?N,?µN€?¶?µ??N? N??????»NZN†???? ?'N??µ?»?µ????????.

Web link: ***www.IntellectualArchive.com/getfile.php?file=hDXLg1thNNh&orig_file=Synergetic universe in Russian.doc***

ID #: 1212 **Natural Sciences / Physics / General Physics**

Submitted on: Feb 09, 2014

Author: **Alejandro A. Torassa**

Title: **A Group of Invariant Equations**

Abstract: In classical mechanics, this paper presents a group of equations, which are invariant under transformations between reference frames.

Web link: ***www.IntellectualArchive.com/getfile.php?file=hH6MsjX3OF5&orig_file=Invariant.pdf***

ID #: 1213 **Natural Sciences / Physics / General Physics**

Submitted on: Feb 10, 2014

Author: **Alejandro A. Torassa**

Title: **A Definition of Work**

Abstract: In classical mechanics, this paper presents a definition of work, which can be used in any reference frame (rotating or non-rotating) (inertial or non-inertial) without the necessity of introducing fictitious forces.

Web link: ***www.IntellectualArchive.com/getfile.php?file=ZcnLfL7MxG8&orig_file=Work.pdf***

ID #: 1215 **Natural Sciences / Physics / General Physics**

Submitted on: Feb 12, 2014

Author: **Alejandro A. Torassa**

Title: **Universal Classical Mechanics**

Abstract: This paper presents a universal classical mechanics, which can be applied in any reference frame (rotating or non-rotating) (inertial or non-inertial) without the necessity of introducing fictitious forces.

Web link: ***www.IntellectualArchive.com/getfile.php?file=ZtJ1Uto6uF7&orig_file=paper36.pdf***

ID #: 1216 **Natural Sciences / Physics / Gravitation Theory (Relativity)**

Submitted on: Feb 12, 2014

Author: **Alexander Shalyt-Margolin**

Title: **Gravity on All the Energy Steps. The Contours of a Future Building**

Abstract: At the present time a theory of gravity is subdivided into two absolutely different parts: low-energy theory represented by the General Relativity (GR) and hypothetical high-energy theory a€“ Quantum Gravity (QG) a€“ that is still unresolved. In this way there is a certain dichotomy in gravity considered as a unified theory. This paper is an effort to reveal the main causes for such a dichotomy; the means for departure from this dichotomy are proposed. By one of the approaches gravity is considered at low and at high energies as a single whole dependent on the same parameters, which are discrete for the fundamental length if present.

Web link: ***www.IntellectualArchive.com/getfile.php?file=MOG2qjUmSTN&orig_file=GR-Shalyt-Margolin2.pdf***

ID #: 1218 **Natural Sciences / Physics / General Physics**

Submitted on: Feb 15, 2014

Author: **Khaidarov Gennady Gasimovich**

Title: **The relationship of the surface tension of the liquid with the heat of vaporization**

Abstract: Reference: Khaidarov G. G. O svyazi poverkhnostnogo natyazheniya zhidkosti s teplotoi paroobrazovaniya // Zhurnal fizicheskoi khimii (English is the name of the journal - Russian Journal of Physical Chemistry A), 1983, Vol 57, a„– 10, pp. 2528-2530.
Symmary: This article described a single view of the evaporation process and the concept of surface tension. Proposed a theoretical formula. Formula tested for 64 substances at varying temperatures from -253 to 200 degrees Celsius. Particularly good matching formulas with the experimental data obtained for substances with a spherical shape of the molecules. Information concerning the theory of A«unpackingA» and its consequences can be found in free access in Internet, Wikipedia and Wikibooks in Russian, typing in search box A«Surface tensionA».

Web link: ***www.IntellectualArchive.com/getfile.php?file=qKk6nlGeeOK&orig_file=Khaidarov_1983_surface_tension_scan2014.doc***

ID #: 1219 **Natural Sciences / Physics / General Physics**

Submitted on: Feb 18, 2014

Author: **Alejandro A. Torassa**

Title: **Angular Classical Mechanics**

Abstract: This paper presents an angular classical mechanics, which can be applied in any reference frame (rotating or non-rotating) (inertial or non-inertial) without the necessity of introducing fictitious forces.

Web link: ***www.IntellectualArchive.com/getfile.php?file=rH8jF7dKC2u&orig_file=paper37.pdf***

ID #: 1220 **Natural Sciences / Physics / General Physics**

Submitted on: Feb 18, 2014

Author: **Alejandro A. Torassa**

Title: **Linear Classical Mechanics**

Abstract: This paper presents a linear classical mechanics, which can be applied in any reference frame (rotating or non-rotating) (inertial or non-inertial) without the necessity of introducing fictitious forces.

Web link: ***www.IntellectualArchive.com/getfile.php?file=ZnwiKua9iqD&orig_file=paper38.pdf***

ID #: 1221 **Natural Sciences / Chemistry / Pharmacy**

Submitted on: Feb 19, 2014

Author: **Shcherbak M.O., Kaplaushenko A.G.**

Title: **THE STUDY OF ACID-BASE PROPERTIES OF 2-(4-AMINO-5-(2-, 3-, 4-NITROPHENYL)-1,2,4-TRIAZOLE-3-YLTHIO) ACETIC ACIDS AND THEIR SALTS**

Abstract: The creation of new original drugs is one of the major aims of pharmaceutical industry for today, it based on purposeful synthesis of new highly efficient and low-toxic compounds and the study of its biological activity. From both practical and theoretical point of view the determination of ionization constants of synthesized compounds plays an important role. In our work we determined ionization constants of 2-(4-amino-5-(2-nitrophenyl)-1,2,4-triazole-3-ylthio)acetic acids and its salts and detected the influence of substituents on the acid-base properties of the compounds. Suggestion that discussed acids and their salts in oral administration will be more actively absorbed in the stomach or bowels has been made based on the results.

Web link: ***www.IntellectualArchive.com/getfile.php?file=IggZhNTkkOe&orig_file=Shcherbak.doc***

ID #: 1222 **Natural Sciences** / **Physics** / **Fluid Dynamics**

Submitted on: Feb 19, 2014

Author: **Peter Gospodinov, Vladimir Roussinov, Mirona Mironova**

Title: **Cylindrical nonisothermal oscillatory Couette gas flow in the slip regime: Wall shear stress and energy transfer, numerical investigation**

Abstract: The oscillatory Couette flow between an oscillating inner cylinder and a stationary outer cylinder is considered in the study. New results for the stress and heat flux at the "gas-cylinder wall" interface are obtained. The continuum model based on the Navier-Stokes equations for compressible fluid is completed with the equations of continuity and energy transport. Along with the numerical solution proposed in our previous paper [29], it is used to investigate the cylinder-gas interaction. The wall shear stress (drag) and heat flux variation at the cylinder walls are numerically investigated. First order velocity-slip boundary conditions are specified referring to two types of motion of the inner cylinder- harmonic oscillations and stepwise oscillations. Two types of energy transfer boundary condition at inner cylinder are considered - inner cylinder with constant wall temperature and adiabatically insulated inner cylinder. Results found for the drag and heat flux variations are presented accounting for different oscillation frequencies and Knudsen numbers. Parts of the results obtained for the harmonically oscillating inner cylinder are compared to the numerical data, obtained by the DSMC method in [18]. In the case of harmonically oscillating inner cylinder a drag phase delay with respect to the wall velocity is established and studied. Hydrodynamic selfsimilarty of the drag and energy transfer variations is confirmed and analyzed.

Web link: ***www.IntellectualArchive.com/getfile.php?file=iGdEDKH52Bu&orig_file=Paper_Gospodinov.pdf***

ID #: 1223 **Natural Sciences** / **Physics** / **General Physics**

Submitted on: Feb 24, 2014

Author: **Miroslav Pardy**

Title: **From Fermat principle to the Lobachevskii-Fok space in particle**

Abstract: The Poincare model of the Lobachevskii geometry is derived from the Fermat principle. The Lobachevskii geometry is interpreted as the Lobahcevskii-Fok velocity space geometry of moving particles. The relation of this geometry to the decay of the neutral pi-meson is considered. The generalization of the Lobachevskii geometry is performed and the new angle of parallelism is derived (Pardy, 2013). The light confined circularly in the optical medium is
defined as the optical black hole. The existence of the centrifugal force acting on the photon is discussed.

Web link: ***www.IntellectualArchive.com/getfile.php?file=R1pVco0mkN5&orig_file=fermlobfok3.pdf***

ID #: 1224 **Natural Sciences** / **Physics** / **General Physics**

Submitted on: Feb 27, 2014

Author: **Alejandro A. Torassa**

Title: **General Classical Mechanics**

Abstract: This paper presents a general classical mechanics which is invariant under transformations between reference frames and which can be applied in any reference frame (rotating or non-rotating) (inertial

or non-inertial) without the necessity of introducing fictitious forces.
Web link: ***www.IntellectualArchive.com/getfile.php?file=N7U8WOtelTh&orig_file=General.pdf***

ID #: 1226 **Natural Sciences / Physics / General Physics**

Submitted on: Feb 27, 2014

Author: **Alejandro A. Torassa**

Title: **A New Principle of Least Action**

Abstract: In classical mechanics, this paper presents a new principle of least action which is invariant under transformations between reference frames and which can be applied in any reference frame (rotating or non-rotating) (inertial or non-inertial) without the necessity of introducing fictitious forces.
Web link: ***www.IntellectualArchive.com/getfile.php?file=rOB83wOMhHI&orig_file=New.pdf***

ID #: 1227 **Natural Sciences / Chemistry / Pharmacy**

Submitted on: Mar 02, 2014

Author: **Inna V. Bushueva, Evgeniy G. Knysh, Aleksandr I. Panasenko**

Title: **THE DETERMINATION OF MARKET DEMAND ON VETERINARY PRODUCTS TO THE CONDITIONS OF THE CURRENT STATE OF THE ECONOMY IN UKRAINE**

Abstract: The regulatory method is the most effective method of determining the capacity of veterinary drugsa€™ market for today. Technology of calculation is based on consumption of certain types of veterinary drugs (or some pharmacological groups) that is calculated per one animal over time. From our point of view the optimal period of time is a year, as certain trends in the number change and incidence of animals can be observed throughout the year.
Web link: ***www.IntellectualArchive.com/getfile.php?file=oI998MhgKNi&orig_file=THE DETERMINATION OF MARKET DEMAND ON VETERINARY PRODUCTS TO THE CONDITIONS OF THE CURRENT STATE OF THE ECONOMY IN UKRAIN1.doc***

ID #: 1231 **Social Sciences / Education / Assessment**

Submitted on: Mar 11, 2014

Author: **Svetlana Svizhevskaya**

Title: **EDUCATION QUALITY ASSESSMENT: NOT QUALIMETRY, BUT PHILOSOPHY OF MUTUAL RECOGNITION**

Abstract: This paper considers formation of such concept as a€?higher education qualitya€? in the context of mutual coexistence management, pedagogical and personal approaches to its assessment. Analysis of international practice and achievements of the scientific community in Ukraine gives a set of tools for philosophical understanding of the culture of quality, developing of a flexible system of quality management in higher education based on the recognition of the national strategy, using of proven results of educational research, improving of the skills of all the educational process participants, implementing of personal interests.
Web link: ***www.IntellectualArchive.com/getfile.php?file=qrxfrAUZWJd&orig_file=EDUCATION QUALITY ASSESSMENT SS.doc***

ID #: 1232 **Social Sciences / Economics / Macroeconomics**

Submitted on: Mar 15, 2014

Author: **Todoriuk S.I.**

Title: **INSTITUTS AND ISTITUTIONS: THE PROBLEM OF DISTINCTIONS BETWEEN THE TERMS**

Abstract: The interpretation of category "institut" and "institution" is considered. The difference between the probed categories is represented. The author vision in relation to the probed category is proposed.
Web link: ***www.IntellectualArchive.com/getfile.php?file=9erwQfhim3i&orig_file=Todoriuk S.I..doc***

ID #: 1235 **Natural Sciences / Physics / General Physics**

Submitted on: Mar 17, 2014

Author: **Alejandro A. Torassa**

Title: **A New Principle of Conservation of Energy**

Abstract: In classical mechanics, this paper presents a new principle of conservation of energy which is invariant under transformations between reference frames and which can be applied in any reference frame (rotating or non-rotating) (inertial or non-inertial) without the necessity of introducing fictitious forces.

Web link: ***www.IntellectualArchive.com/getfile.php?file=Ug3qCOPUf9L&orig_file=Energy.pdf***

ID #: 1238 **Social Sciences / Psychology / Psychology of a personality**

Submitted on: Mar 19, 2014

Author: **Honcharova Halina**

Title: **Features of motivation of students of distance education**

Abstract: The paper presents a theoretical analyze of distance education, the main directions of psychological and educational research of distance education, studying the specifics of the motivational sphere of students.

Web link: ***www.IntellectualArchive.com/getfile.php?file=ifNOhGlUi0e&orig_file=FEATURES OF MOTIVATION OF STUDENTS OF DISTANCE EDUCATION.docx***

ID #: 1239 **Natural Sciences / Physics / General Physics**

Submitted on: Mar 19, 2014

Author: **Alejandro A. Torassa**

Title: **A New System of Equations in Classical Mechanics**

Abstract: In classical mechanics, this paper presents a new system of equations which is invariant under transformations between reference frames and which can be applied in any reference frame (rotating or non-rotating) (inertial or non-inertial) without the necessity of introducing fictitious forces.

Web link: ***www.IntellectualArchive.com/getfile.php?file=wUKvQjBUhrj&orig_file=System.pdf***

ID #: 1240 **Literature / Internet articles / Analysis of literature**

Submitted on: Mar 22, 2014

Author: **Yu.N. Klimov**

Title: **Quantitative lexicology of the Gospels and epistles of Sacred Apostles in the New Testament**

Abstract: On length and cumulative length of words of the Gospel and the epistles of the New Testament differed, since the greatest size, and settled down accordingly from 137914 New Testament up to John`s 835 Second epistles and from 137914 New Testament up to John`s 413080 Second epistles. Under the natural logarithm of cumulative quantity of lengths of words of the Gospel and the epistles of the New Testament differed, since the greatest size, from 12.0546 Acts of sacred Apostles up to John`s 12.9314 Second epistles. On volume of texts of the Gospel and the epistles in the New Testament, since the greatest size, settled down from 17475 New Testament up to John`s 214 Third epistles. On cumulative volume of texts of the Gospel and the epistles in the New Testament, since the greatest size, settled down from 17475 New Testament up to John`s 99293 Third epistles. Under the cumulative natural logarithm of volume of texts of the Gospel and the epistles in the New Testament, since the greatest size, settled down from 9.7685 New Testament up to John`s 11.5058 Third epistles. On volume of the dictionary of the Gospel and the epistles in the New Testament, since the greatest size, settled down from 8196 New Testament up to John`s 149 Third epistles. On cumulative volume of dictionaries of the Gospel and the epistles in the New Testament, since the greatest size, settled down from 8196 New Testament up to John`s 35947 Third epistles. Under the cumulative natural logarithm of volume of dictionaries of the Gospel and the epistles in the New Testament, since the greatest size, settled down from 9.0114 New Testament up to John`s 10.4838 Third epistles. Under the relation of volume of dictionaries to total amount of texts of the Gospel and the epistles in the New Testament, since the greatest size, settled down from Judas`s 0.7208 epistles up to 12.7209 First epistle of Apostle Paul to Thessalonians. Under the cumulative relation of volume of dictionaries to volume of texts of the Gospel and the epistles in the New Testament, since the greatest size, settled down from Judas`s 0.7208 Epistle up to 12.7209 Apostles Paul First

the epistles to Thessalonians. On coordinates of an average point computer quantitative lexical crossingover the Gospel and epistle in the New Testament, since the greatest size, settled down from 127345 New Testament up to John`s 14 Second epistles - to the greater volume of the text there corresponded the big point on coordinates of an average point computer quantitative lexical crossingover. On coordinates of a point computer quantitative lexical crossingover the Gospel and epistle of cumulative length of words and frequency in the New Testament, since the greatest size, (average value of the natural logarithm of cumulative length of words and frequencies) settled down from 11.7350 New Testament up to John`s 2.6390 Second epistle. Under the relation of relative speeds bclw/bcfw on the sedate equation N?=??N…b the Gospel and epistle in the New Testament, since the greatest size, settled down from 6.4884 New Testament up to John`s 1.0567 Third epistle. On parameters of a point computer quantitative lexical crossingover the Gospel and epistle in the New Testament, since the greatest size, settled down from 14948 New Testament up to John`s 1 Second message, John`s Third message, Judas`s epistles and the epistles of Apostle Paul to Philemon. It is necessary to note, that point computer quantitative lexical crossingover epistle can be submitted by an initial point at value of this point to equal unit (John`s Second epistles, John`s Third epistles, Judas`s epistles). Modeling on cumulative length of words of the Gospel and the epistles on size b in the linear equation, since the greatest size, has shown change from 9.8720 New Testament up to John`s 5.0453 Second epistles. Modeling on average cumulative length of words of the Gospel and the epistles in the sedate equation (size ?°), since the greatest size, has shown change from 5.3067 New Testament up to John`s 3.3510 Second epistle. Modeling on relative speed of cumulative length of words of the Gospel and the epistles on size b in the sedate equation, since the greatest size, has shown change from John`s 0.1466 Second epistle up to 0.0837 New Testament. Modeling computer quantitative lexical crossingover Gospel and epistle in the New Testament on cumulative frequencies of words on the linear equation (size b) has shown points, that it changes from 11.4610 New Testament 4.0353 up to John`s Third message. Modeling computer quantitative points lexical crossingover Gospel and epistle in the New Testament of cumulative frequencies of words on the sedate equation (size ?°), since the greatest size, has shown, that she changes from 10.4050 New Testament up to John`s 2.8868 Third epistle. Modeling computer quantitative points lexical crossingover Gospel and epistle in the New Testament of cumulative frequencies of words on the sedate equation (size b), since the greates

Web link: ***www.IntellectualArchive.com/getfile.php?file=LRD7JKPhugp&orig_file=Quantitative lexicology of the Gospels and epistles of Sacred Apostles in the New Testament.docx***

ID #: 1241 **Natural Sciences / Physics / General Physics**

Submitted on: Mar 22, 2014

Author: **Alexander Bolonkin**

Title: **New Methods of Removing Space Debris**

Abstract: In 1957 the new era of studying outer Space by space apparatus was ushered in. During this past half century, thousands of satellites, space ships and space stations were launched. The tens of thousands of slivers from old rockets remaining in Space represent a serious danger for new satellites, space craft, space stations and space travelers. Currently, about 19,000 pieces of debris larger than 5 cm (2.0 in) are tracked. Any of them can damage a space apparatus. This work delineates the problems of the space debris (amount, distribution, growth, danger and so on), reviews the old and contemporary methods of cleaning up the debris, and evaluates the relative efficiency of the current and new methods. This paper offers new methods and installations for cleaning outer space from space debris and specific protection of important space ships and stations from large space debris (SD). Advantages of the offered method and apparatus are the following: 1. Smaller size and weight by 2 -3 times than conventional SD Collector. 2. Greater efficiency by 2 -3 times. 3. Saves fuel by some times. 4. No limits in size for SD. 5. Can easily protect a space ship and station (for example, International Space Station) from SD.

Web link: ***www.IntellectualArchive.com/getfile.php?file=iimoxuJCThv&orig_file=Article Space Debris for Library after Shmuel 3 16 14.doc***

ID #: 1242 **Natural Sciences / Physics / General Physics**

Submitted on: Mar 22, 2014

Author: **Akexander Bolonkin**

Title: **Provisional Patent: Method and Installation for Cleaning the Outer Space from Space Debris**

Abstract: Currently (2011), about 19,000 pieces of space debris larger than 5 cm (2.0 in) are tracked (for example: old non-working satellites, last stages of rockets and so on). Any of them can catastrophic damage the working space apparatus, space stations and space ship. The field of invention is a

method and installation (space apparatus) for cleaning the outer Space from Space debris, protection current and future space station, ships, space apparatus from space debris, meteroids and enemy attack. Offered devices also can be installed on new space apparatus for returning them into the planet atmosphere after lifetime or in dangerous situation.
Author offers new method and installation for cleaning the outer space from space debris and individual protection the important space ship and stations from big space debris (SD). Advantages of the offered method and apparatus are following: 1. Less size and weight in 2 -3 times than conventional SD Collector. 2. More efficiency in 2 -10 times. 3. Save fuel in some times. 4. No limits in size for SD. 5. Can easy protect selected space ship and station (for example, International Space Station) from SD.

Web link: ***www.IntellectualArchive.com/getfile.php?file=OpkiNUOqwXM&orig_file=Patent Space Debris Provisinal 2 26 14.docx***

ID #: 1243 **Natural Sciences** / **Physics** / **General Physics**

Submitted on: Mar 23, 2014

Author: **Dhananjay P. Mehendale**

Title: **How to beat restrictions imposed by No-cloning Theorem and Relativity Theory?**

Abstract: We suggest a way to produce any number of clones of an unknown quantum state. We also suggest a way to transmit information from one place to other far away place exactly and almost instantaneously. This paper thus aims to suggest a method to produce a€?more than one clonea€? and a method to achieve a€?instantaneous and exact information transfera€?.

Web link: ***www.IntellectualArchive.com/getfile.php?file=g0GWjaeoeQ8&orig_file=Teleportation.pdf***

ID #: 1244 **Natural Sciences** / **Physics** / **Condensed Matter Physics**

Submitted on: Mar 24, 2014

Author: **Miroslav Pardy**

Title: **The Moessbauer effect in homogeneous magnetic field**

Abstract: We derive the probability of the Moessbauer effect realized by the charged particle moving in the homogeneous magnetic field, or, in accelerating field. The submitted approach represents new deal of the Moessbauer physics.

Web link: ***www.IntellectualArchive.com/getfile.php?file=iMgbqGMEXGd&orig_file=mossmagn.pdf***

ID #: 1245 **Natural Sciences** / **Physics** / **Condensed Matter Physics**

Submitted on: Mar 24, 2014

Author: **Alexander Bolonkin**

Title: **Femtotechnology. AB-matter. Properties, Stability, Possibility Production and Applications**

Abstract: Designs of new forms of matter composed of nucleons (neutrons, protons), electrons, and other nuclear particles are detailed. This matter is measured in the femtometer (10-15 m) scale (a€?femtotechnologya€?), which is millions of times smaller than material on the nanometer (10-9 m) scale (a€?nanotechnologya€?). These new femto-needles, femto-tubes have extraordinary properties such as tensile strength, stiffness, hardness, critical temperature, superconductivity, super-transparency and zero friction. All of these properties are magnified millions of times in comparison to those of conventional molecular matter. Applications include concepts of design for aircraft, ships, transportation, thermonuclear reactors, constructions, and so on from nuclear matter. These vehicles will have unbelievable possibilities such as invisibility, ghost-like penetration through any walls and armor, protection from nuclear bomb explosions and any radiation flux.
But many readers asked about stability of the nuclear matter. It is well-known that the conventional nuclear matter having more than 92 protons or more than 238 nucleons became instable. In given work the author shows the special artificial forms of nuclear AB-matter which make its stability and give the fantastic properties. For example, by the offered AB-needle you can pierce any body without any damage, support motionless satellite, reach the other planet, and research Eartha€™s interior. These forms of nuclear matter are not in nature now, and nanotubes are also not in nature. That artificial matter is made by men. The AB-matter is also not natural now, but researching and investigating their possibility, stability and properties are necessary for creating them.

Web link: ***www.IntellectualArchive.com/getfile.php?file=ei0OpZOWPip&orig_file=Article AB Matter Property and Stability 10 14 13.doc***

ID #: 1246 **Literature / Internet articles / Analysis of literature**

Submitted on: Mar 26, 2014

Author: **Yu.N. Klimov**

Title: **??apax legomena, dishapax legomena both a h-point in Gospels and epistles of apostles in the New testament**

Abstract: Are investigated hapax legomena, dishapax legomena both a h-point in Gospels and epistles of apostles in the New testament. Quantitative similarity and distinction hapax legomena, dishapax legomena and h-points of the investigated texts are shown. Modeling Gospels is lead and texts of messages of the Apostles, allowing revealing close texts.

Key words: hapax legomena, dishapax legomena, a h-point, cumulative hapax legomena, cumulative dishapax legomena, the New testament, number of verses, modeling, the linear equation, the logarithmic equation, the sedate equation, exponential the equation, a polynoms of the second degree, a polynoms of the third degree, a zone of distribution hapax legomena and dishapax legomena, non-uniformity of zones of distribution hapax legomena and dishapax legomena, relative speed, relative N? exponential speed, volumes of texts, volumes of dictionaries, cumulative volume of the text, cumulative volume of dictionaries, riches of texts, affinity Gospels. affinity of epistles.

Web link: ***www.IntellectualArchive.com/getfile.php?file=OlOuo3NT7wU&orig_file=O ??apax legomena in NT_IA_2014.docx***

ID #: 1249 **Social Sciences / Education / Theory**

Submitted on: Apr 02, 2014

Author: **TATYANA PISMENKOVA**

Title: **REALIZATION OF COMPETENCY APPROACH IN DEVELOPING EDUCATIONAL PROGRAMS FOR STUDENTS OF MINING SPECIALTIES**

Abstract: The article provides guidelines for the formation of educational training programs in mining competence-based approach. Approaches to adapt the content of higher education in the mining industry with the requirements of a modern legal framework of higher education in Ukraine are demonstrated. The aim of the paper is to determine the conceptual foundations for the formation of educational training programs through the use of mining competence approach based on the regulatory framework of higher education in Ukraine.

Web link: ***www.IntellectualArchive.com/getfile.php?file=AZZ7JmsLwKh&orig_file=Tatyana Pismenkova.doc***

ID #: 1251 **Literature / Internet articles / Analysis of literature**

Submitted on: Apr 06, 2014

Author: **Yu.N. Klimov**

Title: **Case linguistics of a poems of A«L?µ voyageA» Ch. Baudelaire (the original and translations into Russian)**

Abstract: By the example of Ch. Bodler`s poem "Travel" the case linguistics of original Ch. Baudelaire "L?µ voyage" and his translations into V.V. Levik`s, M.I.Tsvetaeva Russian and Ellis`s under the following characteristics is investigated: general length of a word, volume of the dictionary, volume of the text, the relation of volume of the text to volume of the dictionary, relation of volume of the dictionary to volume of the text, quantity hapax legomena, an index of exclusiveness of the case by quantity hapax legomena in percentage of word forms, quantity dishapax legomena, the relation hapax legomena to volume of the dictionary, the relation hapax legomena to volume of the text, the relation dishapax legomena to volume of the dictionary, the relation dishapax legomena to volume of the text, the relation hapax legomena to dishapax legomena, the relation hapax legomena to dishapax legomena to volume of the dictionary, the relation hapax legomena to dishapax legomena to volume of the text. On the majority of characteristics the length of poetic translation is more than original of the poetic text, that is E. Nida`s and C. Taber`s hypothesis proves to be true, that good translation is always longer, in spite of the fact that the opposite data - length of translation of the prosaic text of less original of the text are received. The put forward hypothesis proves to be true, that linger to the relation of volume of dictionaries to volume of texts there corresponds more complex text, that is Russian translation.

Key words: case linguistics, Ch. Baudelaire "L?µ voyage", translations, Russian, V.V. Levik, M.I. Tsvetaeva, Ellis, general length of a word, volume of the dictionary, volume of the text, the relation of volume of the text to volume of the dictionary, the relation of volume of the dictionary to volume of the text, quantity hapax legomena, an index of exclusiveness of the case by quantity hapax legomena in percentage of word forms, quantity dishapax legomena, the relation hapax legomena to volume of

the dictionary, the relation hapax legomena to volume of the text, the relation dishapax legomena to volume of the dictionary, the relation dishapax legomena to volume of the text, the relation hapax legomena to dishapax legomena, the relation hapax legomena to dishapax legomena to volume of the dictionary, the attitude(relation) hapax legomena to dishapax legomena to volume of the text, E. Nida`s and C. Taber`s, M.N. Mihaylov`s and A.B. Kutuzov`s hypothesis, relative speed, cumulative computer lexical crossingover

Web link: ***www.IntellectualArchive.com/getfile.php?file=QiC3Jjllh8O&orig_file=Case linguistics of a poems of Ch.Baudelair_IA_2014.docx***

ID #: 1254 **Natural Sciences** / **Physics** / **Astrophysics**

Submitted on: Apr 11, 2014

Author: **S. I. Kruglov**

Title: **Black hole radiation of spin-1 particles in (1+2) dimensions**

Abstract: The radiation of vector particles by black holes in (1+2) dimensions is investigated within the WKB approximation. We
consider the process of quantum tunneling of bosons through an event horizon of the black hole. The emission temperature for the Schwarzchild background geometry coincides with the Hawking temperature and for the Rindler space-time the temperature is the Unruh temperature. We also obtain the radiation temperatures for the de Sitter space-time.

Web link: ***www.IntellectualArchive.com/getfile.php?file=jupKbwYSAIZ&orig_file=Blackhole_rad.pdf***

ID #: 1266 **Natural Sciences** / **Physics** / **General Physics**

Submitted on: May 17, 2014

Author: **Alejandro A. Torassa**

Title: **A Principle of Conservation of Relational Energy**

Abstract: In classical mechanics, this paper presents a principle of conservation of relational energy which can be applied in any reference frame without the necessity of introducing fictitious forces.

Web link: ***www.IntellectualArchive.com/getfile.php?file=hhMhaITJsTu&orig_file=Relational.pdf***

ID #: 1267 **Natural Sciences** / **Physics** / **General Physics**

Submitted on: May 19, 2014

Author: **Alejandro A. Torassa**

Title: **The Principle of Conservation of Energy**

Abstract: In classical mechanics, this paper presents a new principle of conservation of energy which is invariant under transformations between reference frames and which can be applied in any reference frame (rotating or non-rotating) (inertial or non-inertial) without the necessity of introducing fictitious forces.

Web link: ***www.IntellectualArchive.com/getfile.php?file=2QNlKZrHOVg&orig_file=Kinetic.pdf***

ID #: 1269 **Social Sciences** / **Economics** / **Labor**

Submitted on: May 20, 2014

Author: **Olena Oliinychenko**

Title: **Using internet services in human resources management**

Abstract: The development of Internet services and technologies that are conventionally incorporated in the concepts of A«Web 1.0A», A«Web 2.0A» and A«Web 3.0A» was analyzed. Areas use of technologies and software from the concept Web 1.0 in actions for human resources management (HRM) are set. Areas of use of Web 2.0 services and technologies for key processes in HRM are shown. The potential of the concept of Web 3.0 for HR is now beginning to develop mainly in the A«cloud computingA» services (particularly in the HR SaaS). Combination of various HRM Systems and Internet services and/or online HR tools for certain HR processes is also actively developing.

Web link: ***www.IntellectualArchive.com/getfile.php?file=73Gol5fNYLk&orig_file=article-Oliinychenko-Inet-in-HRM.pdf***

ID #: 1270 **Natural Sciences / Physics / General Physics**

Submitted on: May 22, 2014

Author: **Alejandro A. Torassa**

Title: **A System of Equations of Conservation**

Abstract: In classical mechanics, this paper presents a system of equations of conservation.

Web link: ***www.IntellectualArchive.com/getfile.php?file=wRBaJUIWYeK&orig_file=Equations.pdf***

ID #: 1275 **Literature / Internet articles / Analysis of literature**

Submitted on: May 26, 2014

Author: **Yu.N. Klimov**

Title: **Research index G. Herdan`s and his modeling (on a material of poetry of I.A .Brodsky)**

Abstract: On G. Herdan`s index - the relation of the logarithm of volume of the dictionary to the logarithm of volume of the text I.A. Brodsky`s poetic products, since the greatest size, settled down as follows: verses Post Aetatem Nostram of 1970, the Butterfly of 1972, T. Ventslovaa€™s Lithuanian nocturne of 1973-1974, A« the Petersburg novel A» 1961, verses and poems of 1993 - <1990th>, verses and poems 1973 till 1981, verses and poems of 1982 - till winter of 1992, verses and poems 1968 for 1972, verses and poems 1964-1965 till 1968, a poem A«Gorbunov and GortchakovA» 1965-1968, poem "Zophia" of 1962, verses and poems from winter 1962-1963 till 1964 and verses and poems 1957 till winter of 1963 from 0,9463 verses Post Aetatem Nostram of 1970, the Butterfly of 1972, T. Ventslovaa€™s Lithuanian nocturne of 1973-1974 up to 0,8924 verses and poems 1957 till winter of 1963. On G. Herdan`s index all investigated products I.??. Brodsky were close among them, the difference between them makes 5.7 %. Modeling of an index of G. Herdan`s and his cumulative form, since the greatest size, is submitted linear, exponential, to the logarithmic and sedate equations, polynoms of the second and third degree. Modeling of an index of G. Herdan`s and his cumulative form, since the greatest size, is described by the logarithmic equation. And for the cumulative form of an index of G. Herdan`s - logarithmic, linear, and to the sedate equations, by polynoms of the second and third degree For the first time it is shown, that relative speed on the sedate equation of an index of G. Herdan`s of products of I.A.Brodsky and his cumulative form, since the greatest size, above, than relative exponential speed, accordingly, -0,020 and -0,004x, 0,9874 and 0,2104x, that confirms our previous researches on quantitative lexicology. For the first time it is shown, that the corner between a cumulative curve and curve dynamics of an index of G. Herdan`s exponential is equal about(near) 18 A°.
Key words: G. Herdan`s index, I.A. Brodsky, poetry, verses and poems, volume dictionaries, volume of texts, modeling of an index of G. Herdan`s, relative speed, exponential speed, quantitative lexicology, a corner between a cumulative curve and curve dynamics of the index, three non-uniform zones of cumulative distribution of an index of G. Herdan`s, laws Bradford-Zipf.

Web link: ***www.IntellectualArchive.com/getfile.php?file=i6LTjMveOpV&orig_file=Research index G. Herdan,s ... I.A. Brodsky_IA_2014.docx***

ID #: 1277 **Social Sciences / Communication / Linguistics**

Submitted on: May 30, 2014

Author: **Maksym Kabanov**

Title: **Realization of emotional concept A«angerA» in English literary discourse by the means of Ukrainian language**

Abstract: Kabanov M.V. Realization of emotional concept A«angerA» in English literary discourse by the means of Ukrainian language. This article examines the problem of creating concepts and their further development; approaches to the definition of the concept; characteristics of emotion A«angerA»; results of non-verbal and verbal aggression; reasons for aggressive reactions.
Key words: a concept, emotional concept sphere, emotion A«angerA», literary discource.

Web link: ***www.IntellectualArchive.com/getfile.php?file=0GhgpbLj2CZ&orig_file=Kabanov M.V. Realization of emotional concept A«angerA» in English literary discourse by the means of Ukrainian language.docx***

ID #: 1278 **Social Sciences / Communication / Linguistics**

Submitted on: May 30, 2014

Author: **Andrii Sukhatskyi**

Title: **Means of realization of a concept**

Abstract: Modern linguistics tends to adress the problem of verbal realization of the notions of the surrounding world. People are social creatures, thus politics plays an important part in our existance. Political sphere has a vast realization our communication, determining cognitive processes, and directly realized in nominal and communicational activity. The article also deals with the notion of concept and its role in the process of world discription. In the process of study we have concluded that human mind correlates the concept politics with such units as human body, flora and fauna, mechanisms and structures, motion(vertical and horizontal), war, sports/game, kitchen, theatre, circus, buisness.

Web link: ***www.IntellectualArchive.com/getfile.php?file=eQdjNaJlfKL&orig_file=??N,?°N,N,N? ??N?N…?°N†N??????? ??.docx***

ID #: 1279 **Natural Sciences** / **Mathematics** / **Probability**

Submitted on: May 31, 2014

Author: **??.?Y. ?s????N‹N,????, ?•.??. ????N,NZN?????**

Title: **? ?°??????????µN€?????µ N€?°N???N€?µ???µ?»?µ?????µ N,??N‡?µ?? ???° ???????µN€???????µN€N…????N?N,N?N…: ???????µ?»??N€?????°?????µ N??»N?N‡?°????N‹N… N€?°??????????µN€??N?N,??N‹N… ??N€???µ??N,??N€???????? N,???µN€???????? N,?µ?»?° N? ????????N‰N?NZ N€?°??????????µN€???????? N€?°N???N€?µ???µ?»?µ????N? N,??N‡?µ?? ???° ???????µN€N…????N?N,?? N,N€?µN…???µN€?????? ???????µN€N?N„?µN€N‹ ?? N‡?µN,N‹N€?µN…???µN€?????? ??N€??N?N,N€?°??N?N,???µ**

Abstract: ?’ N?N,?°N,N??µ ??????N?N‹???°?µN,N?N? N????????µN€N??°?»N???N‹?? ???µN,???? ???»N? ???????µ?»??N€?????°????N? N€?°??????????µN€??N‹N… N€?°N???N€?µ???µ?»?µ?????? N,??N‡?µ?? ???° ???»?°??????N… N€?µ??N??»N?N€??N‹N… ???????µN€N…????N?N,N?N… ?? ?µ?????»????????N‹N… ??N€??N?N,N€?°??N?N,???°N… N€?°?·?»??N‡?????? N€?°?·???µN€????N?N,??. ?YN€?µ??N?N,?°???»?µ???° ????N,?µN€??N€?µN,?°N†??N? ???????¶?µN?N,???° ?????·?????¶??N‹N… ?·???°N‡?µ?????? ???°N€?°???µN,N€???? ? ????N€?????°-?“?°?????»N?N,?????°, ??N??????»N??·N??µ??N‹N… ???»N? ??????N??°????N? ??N€???µ??N,??N€???????? N,???µN€???????? N,?µ?»?°, ???°?? ???????¶?µN?N,???° N,??N‡?µ?? N,N€?µN…???µN€?????? ???????µN€N?N„?µN€N‹ ?? N‡?µN,N‹N€?µN…???µN€?????? ?µ?????»???????????? ??N€??N?N,N€?°??N?N,???µ. ??N?N,?°???????»?µ???° N???N??·N? ???µ?¶??N? N??»N?N‡?°????N‹???? N€?°?????????µN€??N?N,??N‹???? ??N€???µ??N,??N€???????°???? N,???µN€???????? N,?µ?»?° ?? N€?°?????????µN€??N‹?? N€?°N???N€?µ???µ?»?µ?????µ?? N,??N‡?µ?? ???° ???????µN€N…????N?N,?? N,N€?µN…???µN€?????? ???????µN€N?N„?µN€N‹ ?? N‡?µN,N‹N€?µN…???µN€?????? ?µ?????»???????????? ??N€??N?N,N€?°??N?N,???µ.

Web link: ***www.IntellectualArchive.com/getfile.php?file=s1PWOtlEUiD&orig_file=? ?°N???N€?µ???µ?»?µ?????µ N,??N‡?µ?? ???° ???????µN€N?N,„?µN€?µ ?? ???°N€?°???µN,N€N‹ ? ???????????°-?“?°?????»N?N,?????°.pdf***

ID #: 1280 **Natural Sciences** / **Physics** / **Particle physics**

Submitted on: Jun 05, 2014

Author: **Miroslav Pardy**

Title: **The radiation by space-time periodic dielectric medium**

Abstract: We derive the power spectrum of photons generated by charges in the plane wave of dielectric medium. The experimental observation of such radiation in such medium can be considered as the integral part of the aurora borealis and australis.
The consequence of the dielectric plane wave form of vacuum generated by the gravitational waves is mentioned

Web link: ***www.IntellectualArchive.com/getfile.php?file=WS1jDFLK9sO&orig_file=periodic.pdf***

ID #: 1282 **Literature** / **Internet articles** / **Analysis of literature**

Submitted on: Jun 08, 2014

Author: **Yu.N. Klimov**

Title: **Research index G. Herdan and modeling of materials poetry A.A. Akhmatova**

Abstract: The study of the index G. Herdan, i.e. ratio of the logarithm of the volume of the dictionary to the logarithm of the volume of the text and its properties in the following works of A.A. Akhmatova: "Evening" 1912, Rosary, 1914, "By the sea" 1914, "White flight" of 1917, "Podorozhnik" 1921, "Anno Domini" (1922, "Reed" 1940, "Requiem" 1940, Through all the earth," 1940, "The Poem without a hero", 1942 "Running time" 1960, "Seventh book" 1966 and all the verses on the same page.

Keywords: index G. Herdan, A.A. Akhmatova, poetry, "Evening", "Rosary", "Near the sea", free verse, "White flight", "Podorozhnik", "Anno Domini", "Reed", "Requiem", "the Way of all the earth", "Poem without a hero", all the poems on one page, the volume of dictionaries, the volume of texts, modeling, Herdan, relative speed, exponential rate, quantitative lexicology, the angle between the cumulative curve and the curve of the dynamics of the index, three uneven areas cumulative distribution the law of Bradford, the law Zipf.

Web link: ***www.IntellectualArchive.com/getfile.php?file=7NkQQNVKilv&orig_file=Research index G. Herdan and modeling of materials poetry A.A, Achmatova_IA_2014.docx***

ID #: 1283 **Literature / Internet articles / Analysis of literature**

Submitted on: Jun 08, 2014

Author: **Yu.N. Klimov**

Title: **Research index G. Herdan and modeling of materials poetry B.L. Pasternak**

Abstract: Abstracts: The study of the index G. Herdan, i.e. ratio of the logarithm of the volume of the dictionary to the logarithm of the volume of the text and its properties on the following works B.L. Pasternak: "Start time", "Over barriers", and "Poems of different years", "My Sister life", "Themes and variations", "High disease", poem, "Nine Hundred and fifth year", poem "The Lieutenant Schmidt", the Poem "Spektorsky", "The Second birth", "In the early trains", and "When will clear up",

Keywords: index G. Herdan, G. Herdan, B.L. Pasternak, poetry, the "Start time", "Over barriers", "Poems of different years", "my Sister life", "Theme and variations", "High disease", poem "nine Hundred and fifth year", poem "the Lieutenant Schmidt", poem "Spektorsky", "Second birth", "On the early train," "When will clear up", all the poems on one page, the volume of dictionaries, the volume of texts, modeling, Herdan, the relative speed, exponential speed, quantitative lexicology, the angle between the cumulative curve and the curve of the dynamics of the index, three uneven areas cumulative distribution, the law of Bradford, the law Zipf.

Web link: ***www.IntellectualArchive.com/getfile.php?file=wUijwZ6jwlX&orig_file=Research index G. Herdan and modeling of materials poetry B.L. Pasternak_IA_2014.docx***

ID #: 1284 **Social Sciences / Other / Linguistics**

Submitted on: Jun 14, 2014

Author: **Nargiza Akhmedova**

Title: **Expression propositionin the complex (difficult) offers of the Uzbek language**

Abstract: In given clause the question of expression propositionin the complex (difficult) offers of the Uzbek language is considered (examined). The examples are resulted, the expression proposition in the simple and complex (difficult) offers is compared. The opinions conducting linguists of the world are given. Were based on results of researches the conclusions on the given question are done (made).

Web link: ***www.IntellectualArchive.com/getfile.php?file=7p4SD61eZgK&orig_file=?'N‹N€?°?¶?µ????µ??N€???????·??N†????.doc***

ID #: 1286 **Natural Sciences / Physics / Gravitation Theory (Relativity)**

Submitted on: Jun 26, 2014

Author: **Alexander Shalyt-Margolin**

Title: **The Gravity on All Energy Steps II. Some Signi□cant Examples, New Parameters and One No-Go Theorem**

Abstract: This paper shows that, provided a theory involves the minimal
length, the parameters associated with it will appear in several models
of general relativity and cosmology. But smallness of these parameters
and smoothness of their variation at low energies makes it
possible to consider them practically continuous, the models themselves
being in essence independent of the parameter variations. At

high energies these parameters are really discrete and lead to equations with a discrete set of solutions. Consideration is given to some consequences and, in particular, to some dierences between the, so far, hypothetical theory involving the minimal length and general relativity. Finally, one fairly evident no-go theorem is treated to demonstrate that the entropic approach to gravity in its present form is impossible in the case of the minimal length theory.

Web link: ***www.IntellectualArchive.com/getfile.php?file=U3pQXKvJpeU&orig_file=GR-Uncertainty Principle2.pdf***

ID #: 1287 **Natural Sciences / Physics / Particle physics**

Submitted on: Jun 27, 2014

Author: **Ervin Goldfain**

Title: **Multifractal Sets and the Dynamic Structure of the Standard Model**

Abstract: We show that the Standard Model (SM) represents a self-contained multifractal set on spacetime having arbitrarily small deviations from four-dimensionality. All coupling charges residing on this background (gauge, Higgs and Yukawa) satisfy a closure relationship that a) tightly constrains the flavor and mass content of the SM and b) naturally solves the a€?hierarchy problema€?, without resorting to new concepts reaching beyond the physics of the SM.

Web link: ***www.IntellectualArchive.com/getfile.php?file=1QobZV8l5AN&orig_file=Multifractal Sets and the Dynamic Structure of the Standard Model.pdf***

End of Jan.-Jun. 2014 bulletin