

Math-Net.Ru

(short review)

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First Journals

Discrete Mathematics and Applications

Functional Analysis and Its Applications

Izvestiya: Mathematics

Mathematical Notes

Sbornik: Mathematics

Theoretical and Mathematical Physics

Theory of Probability and its Applications

Russian Mathematical Surveys



Article

Metadata:

- *name, authors, abstract, keywords, year, volume, issue, pages, DOI (both versions)*
- *list of references*
- *list of citations*

Full text: PDF

Classification codes:

PACS, MSC, UDK

References to Bibliographic bases:

MathSciNet, zbMATH, Web of Science, Crossref, ADS NASA

Links: *personal page, institution page*

Statistics

The screenshot shows the Math-Net.Ru website interface. At the top, the site name 'Math-Net.Ru' is displayed in a large, stylized font. Below it, the title 'Matematicheskii Sbornik' is visible. A navigation bar contains links for JOURNALS, PEOPLE, ORGANISATIONS, CONFERENCES, SEMINARS, VIDEO LIBRARY, and PERSONAL OFFICE. The MathJax logo is in the top right corner.

The main content area displays the article information: 'Mat. Sb., 1995, Volume 186, Number 1, Pages 3–28 (Mi msb1)'. It indicates that the article is cited in 14 scientific papers. Links for PDF, HTML, and LaTeX versions are provided. The article title is 'A smooth trajectory classification of integrable Hamiltonian systems with two degrees of freedom' by A. V. Bolsinov. The author's affiliation is 'M. V. Lomonosov Moscow State University, Faculty of Mechanics and Mathematics'.

The abstract states: 'In this paper we construct an invariant of integrable Hamiltonian systems with two degrees of freedom (the so-called st-molecule) enabling such systems to be classified on three-dimensional constant-energy surfaces up to orientation-preserving diffeomorphisms taking trajectories into trajectories.'

Classification codes are listed: UDC: 517.5, MSC: 58F05. The received date is 08.07.1994. The citation is: 'A. V. Bolsinov, "A smooth trajectory classification of integrable Hamiltonian systems with two degrees of freedom", *Mat. Sb.*, 186:1 (1995), 3–28'.

Linking options are provided: 'http://mi.mathnet.ru/eng/msb1' and 'http://mi.mathnet.ru/eng/msb/v186/i1/p3'. There are links for the full text (3411 kB), references (70 kB), and a download PDF file (70 kB).

English version information: 'Sbornik: Mathematics, 1995, 186:1, 1–27 crossref'.

Review databases: 'MathSciNet zbMATH ads' and 'ISI Web of Knowledge: A1995RZ91900001'.

On the right side, there is a sidebar with a thumbnail of the journal cover, a 'Number of views' box showing 306 views for this page, 46 full texts, 23 references, and 4 first pages. At the bottom right, there is a QR code with the text 'What is a QR-code?' below it.



Presentation

Metadata:

- *name, authors, abstract, keywords, year, date, time, place*
- *list of references*

Video: few types

Extra: PPT, DOC, PDF files

Links: personal page, institution page

Statistics

The screenshot shows a seminar page on the Math-Net.Ru website. The header includes the site name and navigation links: JOURNALS, PEOPLE, ORGANISATIONS, CONFERENCES, SEMINARS, VIDEO LIBRARY, and PERSONAL OFFICE. The seminar is titled "Steklov Mathematical Institute Seminar" and took place on May 15, 2014, at 16:00 in Moscow. The topic is "Holographic duality, black holes and high energy physics" by I. Ya. Arefeva. The page features a video player showing a presentation by Arefeva, a photo gallery with her portrait, and statistics for the video (2,625 views, 435.7 MB). The abstract discusses the AdS/CFT correspondence and the role of AdS space in the context of the Hooft limit. The references section lists a paper by Arefeva in Uspekhi Fizicheskikh nauk.

Math-Net.Ru Seminars

JOURNALS PEOPLE ORGANISATIONS CONFERENCES SEMINARS VIDEO LIBRARY PERSONAL OFFICE

Steklov Mathematical Institute Seminar
May 15, 2014 16:00, Moscow, Steklov Mathematical Institute, Conference Hall (8 Gubkina)

PDF report HTML report

Holographic duality, black holes and high energy physics

I. Ya. Arefeva

Video records:
Flash Video 2,625 views
Flash Video 435.7 MB

Number of views:
This page: 625
Video files: 155

Photo Gallery

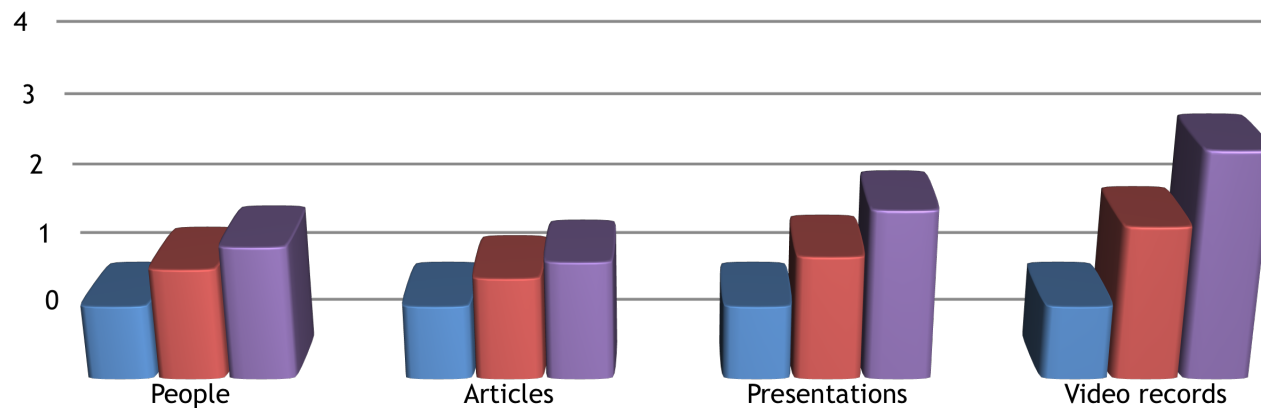
Abstract: Holographic duality is one of the most important discoveries in theoretical physics of last several decades. Method of holographic duality is closely related with AdS/CFT correspondence of Maldacena between the type IIB superstring theory on the product of the 5-dimensional anti-de Sitter space AdS_5 and the 5-dimensional sphere S^5 from one side and the $N = 4$ supersymmetric Yang-Mills theory on the 4-dimensional Minkowski space from another side. Minkowski space is considered here as the boundary of AdS_5 space. In the Euclidean context of AdS/CFT duality the role of AdS space is played by Poincare's model of the Lobachevsky geometry. For the gauge group $SU(N)$ in the 't Hooft limit for large N one gets gravity/gauge theory duality. The holographic method provides an approach to study properties of quantum field theories in strong coupling regime using solutions of the classical gravity theories in high dimensions, in particular to compute the temperature correlation functions in quantum chromodynamics when there is no supersymmetry. In the talk an introduction to the method of holographic duality and its applications to description of quark-gluon plasma formation in the heavy-ion collisions at the Large Hadron Collider and in early Universe will be presented. Holographic description of thermalization of quark-gluon plasma corresponds to the formation of a black hole in AdS_5 space. Multiplicity of particles produced in the heavy-ion collisions is related to entropy of the black hole and modification of the Landau hydrodynamics is obtained. The talk is based on the article I. Ya. Arefeva, "Holographic approach to quark-gluon plasma in heavy ion collisions", Uspekhi Fizicheskikh nauk, 135 (2014).

References

1. I. Ya. Arefeva, "Golograficheskoe opisanie kvark-gluonnoi plazmy, obrazuyushchaysya pri stolkneniyakh tyazhelykh ionov", Uspekhi

Math-Net.Ru Content

	2012	2013	2014	2015
Journals	78	83	100	115
Articles	107 000	116 000	160 000	186 000
People	46 000	50 000	75 000	90 000
Scientific Events	300	430	700	1 050
Presentations	4 000	5 500	9 200	12 600
Video records	900	1 500	3 100	4 600



Presentations

Institution
Steklov Mathematical Institute of RAS
Lomonosov Moscow State University
Independent Moscow University
Moscow Institute of Physics and Technology
Higher School of Economics
Institute for Information Transmission Problems of RAS
Vladimir State University
St. Petersburg Department of Steklov Mathematical Institute of RAS
Sobolev Institute of Mathematics, Siberian Branch of RAS
Peoples Friendship University of Russia
Institute of Mathematics and Mechanics, Ural Branch of RAS
Yaroslavl State Pedagogical University



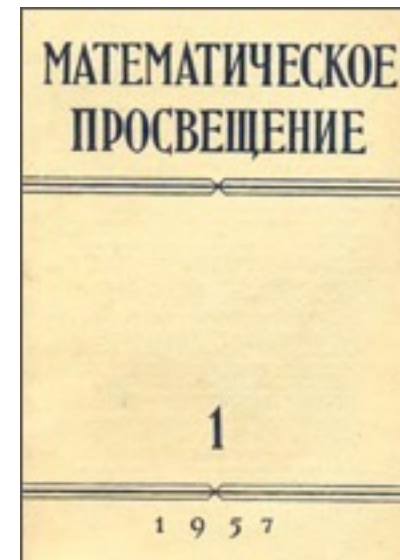
Popular Science Journals

Mathematical Education

Mathematical Education



Quant



Data Export

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Thank you!

