

# On the contest “Best reviews and articles published in *Uspekhi Fizicheskikh Nauk* [*Physics – Uspekhi*] (*UFN*) journal in 2013”

DOI: 10.3367/UFNe.0185.201501a.0002

The competition for the best paper published in *Uspekhi Fizicheskikh Nauk* [*Physics – Uspekhi*] (*UFN*) journal in 2013 became possible owing to state support\* of the programs of development of scientific journals. The *UFN* program, “*Uspekhi fizicheskikh nauk* (*UFN*) journal: a new image for the centenary”, was approved. One of the points of the *UFN* competition program was a yearly competition for the best paper of the previous year (2013 in this case).

The *UFN* Editorial Board decided to carry out separate competitions for “Reviews of topical problems” and for papers from other *UFN* categories and to refer to the winners as laureates of the competitions “Best *UFN* reviews of 2013” or “Best *UFN* articles of 2013”. For the worthiest publication, the winner can be awarded in two categories.

The authors of *UFN* monographic reviews for the last 20 years (except for 2013) were invited to give their recommendations for a preliminary nomination. More than a hundred responses were received.

At first glance, somewhat unexpected was that out of 80 papers published under the rubrics “Reviews of topical problems” (25 reviews), “Physics of our days” (5 papers), “Devices and methods of research” (5 papers), “Methodical notes” (14 papers), “From the history of physics” (5 papers), and “Conferences and symposia” (26 papers) (these *UFN* rubrics are included in Citable Items of the database Web of Science) 69 were proposed for the prize!

In our opinion, this is evidence of the fact that practically each paper published in *UFN* in 2013 was considered by one of the authors-experts to be the best, that is, almost all the papers of 2013 found a thoughtful and interested reader, which cannot but make us happy.

The obtained list of nominated papers (indicating the number of responses for each paper and by whom) was sent to all the members of the editorial board for voting in respect of all the proposed publications (with reference to the rating of these papers by citation according to the Web of Science and the database of MathNet (CrossRef), as well as the rating of these papers by the number of downloads from the site of the journal, [www.ufn.ru](http://www.ufn.ru)).

Five reviews each received a markedly larger number of votes than the others, and it was decided to consider them laureates in the nomination “Best *UFN* review of 2013” without naming the winner, because the results of voting for them differed only slightly.

In contrast the reviews, among articles under other rubrics, the article “New life of complete integrability” by L D Faddeev received at least twice as many votes as any other paper. That is why it was called the “Winner” and the two consequent ones were the laureates in the category “Best *UFN* article of 2013”.

The list of reviews and papers that won in our competition is as follows:

## Best *UFN* reviews of 2013 (laureates of the contest):

1. Dremín I M “Elastic scattering of hadrons” *Phys. Usp.* **56** 3–28 (2013) [in Russian: “Uprugoe rasseyaniye adronov” *Usp. Fiz. Nauk* **183** 3–32 (2013)]
2. Zelenyi L M, Neishtadt A I, Artemyev A V, Vainchtein D L, Malova H V “Quasiadiabatic dynamics of charged particles in a space plasma” *Phys. Usp.* **56** 347–394 (2013) [in Russian: “Kvaziadiabacheskoe opisanie dinamiki zaryazhennykh chastits v kosmicheskoi plazme” *Usp. Fiz. Nauk* **183** 365–415 (2013)]
3. Bulanov S V, Esirkepov T Zh, Kando M, Pirozhkov A S, Rosanov N N “Relativistic mirrors in plasmas — novel results and perspectives” *Phys. Usp.* **56** 429–464 (2013) [in Russian: “Relyativistskie zerkala v plazme — novye rezul’taty i perspektivy” *Usp. Fiz. Nauk* **183** 449–486 (2013)]
4. Krasnok A E, Maksymov I S, Denisuk A I, Belov P A, Miroshnichenko A E, Simovskii C R, Kivshar Yu S “Optical nanoantennas” *Phys. Usp.* **56** 539–564 (2013) [in Russian: “Opticheskie nanoantenny” *Usp. Fiz. Nauk* **183** 561–589 (2013)]
5. Konstandin T “Quantum transport and electroweak baryogenesis” *Phys. Usp.* **56** 747–771 (2013) [in Russian: “Kvantovaya teoriya yavlenii perenosa i elektroslaboy bariogenezis” *Usp. Fiz. Nauk* **183** 785–814 (2013)]

## Best *UFN* paper of 2013 (winner of the contest):

Faddeev L D “New life of complete integrability” *Phys. Usp.* **56** 465–472 (2013) [in Russian: “Novaya zhizn’ polnoi integriruemos-ti” *Usp. Fiz. Nauk* **183** 487–495 (2013)]

## Best *UFN* papers of 2013 (laureates of the contest):

1. Beskin V S, Istomin Ya N, Philippov A A “Radio pulsars: the search for truth” *Phys. Usp.* **56** 164–179 (2013) [in Russian: “Radiopulsary — poiski istiny” *Usp. Fiz. Nauk* **183** 179–194 (2013)]
2. Aranson I S “Active colloids” *Phys. Usp.* **56** 79–92 (2013) [in Russian: “Aktivnye kolloidy” *Usp. Fiz. Nauk* **183** 87–102 (2013)]

The laureates will be given Diplomas of laureate of the 2013 *UFN* Contest and will be awarded from 25,000 to 100,000 rubles as prizes.

The laureate papers (in the English language) will over the entire year in 2015 be open to view on the site of our partners (IOP):

<http://iopscience.iop.org/1063-7869/page/Highlights-of-2013> and will also be tagged with a special sign of laureate papers on the *UFN* site ([www.ufn.ru](http://www.ufn.ru)).

We congratulate the prize winners of the *UFN* 2013 Competition and are grateful to everybody who contributed to the implementation of this competition and took part in its organization.

If the State support of the scientific journal development program is extended over 2015, we plan to carry out the competition “Best *UFN* reviews and articles of 2014”.

*M S Aksent’eva, L V Keldysh,  
V A Rubakov, O V Rudenko*

\* Information about government support of the programs of development of scientific journals see on the next page.

## **\* Information about government support of the programs of development of scientific journals**

The Ministry of Education and Science of the Russian Federation and the Nonprofit Partnership National Electronic-Information Consortium (NP NEICON) as executor of works announced in August 2014, the competition for state assistance in the scientific journals development programs. The competition was carried out in the framework of the federal special-purpose program, Research and Elaboration in Priority Directions of the Development of Scientific and Technical Structure of Russia in 2014–2020 (legislative enactment 3.3.1-IV turn-1) on the topic “Working out and implementing means for demonstration and popularization of scientific-research and scientific-technical works and advances in education and science stimulating the formation of positive views in elucidation of topical processes in scientific research and intellectual technologies”, Code 2014-14-597-0006 (for information about the competition, see the sites <http://konkurs-jurnalov.neicon.ru/>, [minobrnauki.rf/proekty/podderzhka-nauchnykh-zhurnalov/](http://minobrnauki.rf/proekty/podderzhka-nauchnykh-zhurnalov/)).