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Advances in Physical Sciences



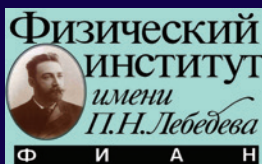
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- Dolgopolov V T “Integer quantum Hall effect and related phenomena” *Phys. Usp.* **57** 105–127 (2014) [in Russian: “Tselochislennyy kvantovyy effekt Kholla i sopryazhennyye s nim yavleniya” *Usp. Fiz. Nauk* **184** (2) 113–136 (2014)]
- Ivanitskii G R, Deev A A, Khizhnyak E P “Long-term dynamic structural memory in water: can it exist” *Phys. Usp.* **57** 37–65 (2014) [in Russian: “Mozhet li sushchestvovat’ dolgovremennaya strukturno-dinamicheskaya pamyat’ vody” *Usp. Fiz. Nauk* **184** (1) 43–74 (2014)]
- Smirnov B M “Electrical cycle in the Earth’s atmosphere” *Phys. Usp.* **57** 1041–1062 (2014) [in Russian: “Elektricheskii tsikl v zemnoi atmosfere” *Usp. Fiz. Nauk* **184** (11) 1153–1176 (2014)]

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- Rubakov V A “The Null Energy Condition and its violation” *Phys. Usp.* **57** 128–142 (2014) [in Russian: “Isotropnoe uslovie energodominantnosti i ego narushenie” *Usp. Fiz. Nauk* **184** (2) 137–152 (2014)] (PHYSICS OF OUR DAYS)

The laureates of the contest are:

- Vaks V L, Domracheva E G, Sobakinskaya E A, Chernyaeva M B “Exhaled breath analysis: physical methods, instruments and medical diagnostics” *Phys. Usp.* **57** 684–701 (2014) [in Russian: “Analiz vydykhaemogo vozdukh: fizicheskie metody, pribory i meditsinskaya diagnostika” *Usp. Fiz. Nauk* **184** (7) 739–758 (2014)]
- Kardashev N S, Novikov I D, Lukash V N, Pilipenko S V, Mikheeva E V, Bisikalo D V, Wiebe D Z, Doroshkevich A G, Zasov A V, Zinchenko I I, Ivanov P B, Kostenko V I, Larchenkova T I, Likhachev S F, Malov I F, Malofeev V M, Pozanenko A S, Smirnov A V, Sobolev A M, Cherepashchuk A M, Shchekinov Yu A “Review of scientific topics for Millimetron space observatory” *Phys. Usp.* **57** 1199–1228 (2014) [in Russian: “Obzor nauchnykh zadach dlya observatorii Millimetron” *Usp. Fiz. Nauk* **184** (12) 1319–1352 (2014)]
- Ritus V I “Tamm–Sakharov group in work on the first hydrogen bomb” *Phys. Usp.* **57** 903–911 (2014) [in Russian: “Gruppa Tamma–Sakharova v rabote nad pervoi vodorodnoi bomboi” *Usp. Fiz. Nauk* **184** (9) 975–983 (2014)]



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I N Toptygin, K Levina

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R N Shcherbakov

P N Lebedev’s “Factory of Young Physicists” and Saratov University
V M Anikin

Physics news on the Internet

Conferences and symposia

Aleksandr Nikolaevich Skrinsky (on his 80th birthday)

Gennadii Andreevich Mesyats (on his 80th birthday)

