Список публикаций сотрудников ВНИИФТРИ

1. Aleynikov, M. S., Baryshev, V. N., Blinov, I. Y., Kupalov, D. S., & Osipenko, G. V. (2020). Prospects for the development of a sensitive atomic interferometer based on cold rubidium atoms. Measurement Techniques, 63(7), 520-523. doi:10.1007/s11018-020-01818-9
2. Aleynikov, M. S., Boyko, A. I., Blinov, I. Y., & Donchenko, S. I. (2018). Using a low phase noise H-maser as a local oscillator for an Rb fountain discriminator. Paper presented at the IFCS 2018 - IEEE International Frequency Control Symposium, doi:10.1109/FCS.2018.8597482
3. Balaev, R. I., Blinov, I. Y., Malimon, A. N., & Shvarts, M. L. (2020). Metrological support of generation 5g communication networks. Measurement Techniques, 62(11), 966-972. doi:10.1007/s11018-020-01720-4
4. Balakireva, I. V., Blinov, I. Y., Pavlov, V. I., & Khatyrev, N. P. (2020). Devices with whispering gallery mode optical resonators: Current state of research and prospects for their application in time and frequency metrology. Measurement Techniques, 63(3), 199-203. doi:10.1007/s11018-020-01772-6
5. Baryshev, V., Epikhin, V., Blinov, I., & Donchenko, S. (2016). Acousto-optic modulators in raman-nath diffraction regime as phase modulators in modulation transfer spectroscopy. Paper presented at the 2016 IEEE International Frequency Control Symposium, IFCS 2016 - Proceedings, doi:10.1109/FCS.2016.7546754
6. Baryshev, V. N., Aleynikov, M. S., Osipenko, G. V., & Blinov, I. Y. (2018). Technique of pulsed optical pumping and pulsed excitation of microwave resonances using the ramsey scheme in a 87Rb cell with a buffer gas. Quantum Electronics, 48(5), 443-447. doi:10.1070/QEL16655
7. Baryshev, V. N., Kupalov, D. S., Novoselov, A. V., Aleinikov, M. S., Boiko, A. I., Pal’chikov, V. G., & Blinov, I. Y. (2017). Compact quantum frequency standard using A

rubidium vapor cell with pulsed optical pumping and microwave excitation using the ramsey scheme. Measurement Techniques, 59(12), 1286-1290. doi:10.1007/s11018-017-1130-6

8. Baryshev, V. N., Osipenko, G. V., Aleinikov, M. S., & Blinov, I. Y. (2019). Raman-ramsey pulsed excitation of coherent population trapping resonances in a 87Rb cell with a buffer gas. Quantum Electronics, 49(3), 283-287. doi:10.1070/QEL16875
9. Belotelov, G. S., Ovsiannikov, V. D., Sutyrin, D. V., Gribov, A. Y., Berdasov, O. I., Pal'chikov, V. G., . . . Blinov, I. Y. (2020). Lattice light shift in strontium optical clock. Laser Physics, 30(4) doi:10.1088/1555-6611/ab7be1
10. Bezmenov, I. V., Blinov, I. Y., Naumov, A. V., & Pasynok, S. L. (2019). An algorithm for cycle-slip detection in a Melbourne–Wübbena combination formed of code and carrier phase GNSS measurements. Measurement Techniques, 62(5), 415-421. doi:10.1007/s11018-019-01639-5
11. Blinov, I., Boiko, A., Kosheliaevskii, N., Kupalova, O., & Sokolova, O. (2018). First experiments on application of rb fountain frequency standards for TA(SU) time scale maintenance. Paper presented at the 2018 European Frequency and Time Forum, EFTF 2018, 257-262. doi:10.1109/EFTF.2018.8409045
12. Blinov, I., Domnin, Y., Donchenko, S., Goncharov, A., Kosheliaevskii, N., Naumov, A., & Slyusarev, S. (2017). Russian state time and frequency standard laboratory activities and updates. Paper presented at the Proceedings of the Annual Precise Time and Time Interval Systems and Applications Meeting, PTTI, , 2017-January 62-72. doi:10.33012/2017.15004
13. Blinov, I., Fedotov, V., & Koshelyaevsky, N. (2016). The first absolute delay determination of GLONASS time receiver for TAI time transfer link calibration. Paper presented at the Proceedings of the Annual Precise Time and Time Interval Systems and Applications Meeting, PTTI, , 2015-January 223-230. doi:10.33012/2016.13168

14. Blinov, I. Y., Boiko, A. I., Domnin, Y. S., Kostromin, V. P., Kupalova, O. V., & Kupalov, D. S. (2017). Budget of uncertainties in the cesium frequency frame of fountain type. Measurement Techniques, 60(1), 30-36. doi:10.1007/s11018-017-1145-z
15. Blinov, I. Y., Kagan, S. N., & Semenov, S. A. (2016). Results of experimental investigations of the real uncertainty of time scales of users of stratum 1 level ntp servers. Measurement Techniques, 59(5), 495-499. doi:10.1007/s11018-016-0996-z
16. Blinov, I. Y., Boyko, A. I., Kosheliaevskii, N. B., & Sokolova, O. Y. (2019). Improvements of TA(SU) and UTC(SU) during last year. Paper presented at the Proceedings of the Annual Precise Time and Time Interval Systems and Applications Meeting, PTTI, , 2019-January 62-67. doi:10.33012/2019.16766
17. Blinov, I. Y., Domnin, Y. S., & Kosheliaevskii, N. (2019). To the issue of frequency band and frequency measurement accuracy. Paper presented at the Proceedings of the Annual Precise Time and Time Interval Systems and Applications Meeting, PTTI, , 2019-January 112-116. doi:10.33012/2019.16768
18. Donchenko, S. I., Blinov, I. Y., Norets, I. B., Smirnov, Y. F., Belyaev, A. A., Demidov, N. A., . . . Vorontsov, V. G. (2020). Characteristics of the long-term instability of the new-generation hydrogen frequency and time standards. Measurement Techniques, 63(1), 34-37. doi:10.1007/s11018-020-01746-8
19. Donchenko, S. I., Shchipunov, A. N., Denisenko, O. V., Blinov, I. Y., Fedotov, V. N., & Sil'vestrov, I. S. (2018). Current state and outlook for the development of instruments for basic and metrological support of the glonass system. Measurement Techniques, 61(1) doi:10.1007/s11018-018-1379-4
20. Epikhin, V. M., Baryshev, V. N., Slyusarev, S. N., Aprelev, A. V., & Blinov, I. Y. (2019). Acousto-optic modulators for a controlled frequency shift of light beams in optical and microwave cold-atom frequency standards. Quantum Electronics, 49(9), 857-862. doi:10.1070/QEL16943

21. Kupalov, D. S., Baryshev, V. N., Blinov, I. Y., Boiko, A. I., Domnin, Y. S., Kopilov, L. N., . . . Novoselov, A. V. (2017). First results on rb fountain Rb304 frequency standard developed at VNIIFTRI. Paper presented at the 2017 Joint Conference of the European Frequency and Time Forum and IEEE International Frequency Control Symposium, EFTF/IFC 2017 - Proceedings, 633-635. doi:10.1109/FCS.2017.8088983
22. Osipenko, G. V., Ivanchenko, E. V., Baryshev, V. N., Aleynikov, M. S., & Blinov, I. Y. (2018). Application of narrow linewidth fiber laser systems in quantum frequency standards and atom interferometers based on cold atoms. Paper presented at the Proceedings - International Conference Laser Optics 2018, ICLO 2018, 365. doi:10.1109/LO.2018.8435704
23. Pavlenko, K. Y., Pavlenko, Y. K., Belyaev, A. A., Blinov, I. Y., Khromov, M. N., Bize, S., & Lorini, L. (2018). Creation of the first russian time and frequency standard on a fountain of ultracold rubidium atoms. Quantum Electronics, 48(10), 967-972. doi:10.1070/QEL16778
24. Skvortsov, M. N., Ignatovich, S. M., Vishnyakov, V. I., Kvashnin, N. L., Mesenzova, I. S., Brazhnikov, D. V., . . . Parekhin, D. A. (2020). Miniature quantum frequency standard based on the phenomenon of coherent population trapping in vapours of 87Rb atoms. Quantum Electronics, 50(6), 576-580. doi:10.1070/QEL17339
25. Stelmashenko, E. F., Klezovich, O. A., Baryshev, V. N., Tishchenko, V. A., Blinov, I. Y., Palchikov, V. G., & Ovsyannikov, V. D. (2020). Measuring the electric field strength of microwave radiation at the frequency of the radiation transition between rydberg states of atoms 85Rb. Optics and Spectroscopy, 128(8), 1067-1073. doi:10.1134/S0030400X20080366