

## List of publications and preprints, Yurii Belov

1. Y. Belov, A. Borichev, The Newman-Shapiro problem, <https://arxiv.org/abs/1711.06901>, to appear in Journal of the European Mathematical Society.
  2. A. Aleman, A. Baranov, Y. Belov, H. Hedenmalm, Backward shift and nearly invariant subspaces of Fock-type spaces, <https://arxiv.org/abs/2007.06107>, to appear in International Mathematics Research Notices.
  3. A. Baranov, Y. Belov, A. Kulikov, Spectral synthesis for exponentials and logarithmic length, <https://arxiv.org/abs/2010.13201>, accepted for publication in Israel Journal of Mathematics.
  4. Y. Belov, A. Kulikov, Y. Lyubarskii, Gabor frames for rational functions, <https://arxiv.org/abs/2103.08959>.
  5. Y. Belov, A. Kulikov, Y. Lyubarskii, Irregular Gabor frames of Cauchy kernels, <https://arxiv.org/abs/2104.01121>.
- 

1. Y. Belov, A. Borichev, A. Kuznetsov, Upper and lower densities of Gabor Gaussian systems, 2020, Applied and Computational Harmonic Analysis, 49, n. 2., pp. 438–450.
2. Y. Belov, A. Borichev, K. Fedorovskiy, Nevanlinna domains with large boundaries, 2019, Journal of Functional Analysis 277(8), pp. 2617-2643.
3. E. Abakumov, E., A. Baranov, Y. Belov, Krein-type theorems and ordered structure for Cauchy–de Branges spaces, 2019, Journal of Functional Analysis, 277(1), pp. 200-226.
4. A. Baranov, Y. Belov, Synthesizable differentiation-invariant subspaces, 2019, Geometric and Functional Analysis, 29(1), pp. 44-71.
5. E. Abakumov, A. Baranov, Y. Belov, 2019, Localization of Zeros in Cauchy–de Branges Spaces, Trends in Mathematics, Analysis of operators on function spaces, pp. 5-27.
6. Y. Belov, Sufficient conditions for synthesability of exponential systems, 2018, Herald of the Bauman Moscow State Technical University, Series Natural Sciences (2), pp. 4-11.
7. A. Baranov, Y. Belov, A. Borichev, The Young type theorem in weighted Fock spaces. Bull. Lond. Math. Soc. 50 (2018), no. 2, pp. 357–363.
8. A. Baranov, Y. Belov, Spectral synthesis in Hilbert spaces of entire functions. European Congress of Mathematics, pp. 203–218, Eur. Math. Soc., Zürich, 2018.
9. A. Baranov, Y. Belov, A. Borichev, Summability properties of Gabor expansions. J. Funct. Anal. 274 (2018), no. 9, pp. 2532–2552.
10. Y. Belov, K. Fedorovskii, Model spaces containing univalent functions. (Russian) Uspekhi Mat. Nauk 73 (2018), no. 1(439), 181–182; translation in Russian Math. Surveys 73 (2018), no. 1, pp. 172–174.

11. A. Baranov, Y. Belov, Yurii; A. Ulanovskii, Gap problem for separated sequences and Beurling-Malliavin theorem. *J. Fourier Anal. Appl.* 23 (2017), no. 4, pp. 877–885.
12. A. Baranov, Y. Belov, Spectral synthesis for operators and systems, *Eur. Math. Soc. Newsl.* (2017), N103, pp. 11-18 (review)
13. A. Baranov, Y. Belov, A. Poltoratski, De Branges functions of Schroedinger equations, *Collectanea Mathematica*, (2017) n. 68, pp. 251–263.
14. A. Baranov, Y. Belov, A. Borichev, Fock type spaces with Riesz bases of reproducing kernels and de Branges spaces, 2017, *Studia Mathematica* 236, n. 2, pp. 127–142.
15. Y. Belov, Y. Lyubarskii, On summation of non-harmonic Fourier series, *Constructive Approximation*, (2016), Vol. 43:2, pp. 291-309.
16. Y. Belov, Bessel Sequences with Finite Upper Density in the de Branges Spaces, (Russian) *Algebra i Analiz* 27 (2015), no. 4, pp. 15-27;
17. Y. Belov, Uniqueness of Gabor series, *Applied and Computational Harmonic Analysis* 39 (2015), pp. 545-551;
18. Y. Belov, V. Havin, The Beurling-Malliavin Multiplier Theorem and its analogs for the de Branges spaces, *Springer series: Operator theory*, ed. Alpay. 2015. Vol. 1. P. 581-609;
19. A. Baranov, Y. Belov, A. Borichev, Spectral synthesis in de Branges spaces, *Geometric and Functional Analysis*, (2015), Vol. 25, Iss. 2: pp. 417-452;
20. E. Abakumov, A. Baranov, Y. Belov, Localization of zeros for Cauchy transforms, *International Mathematics Research Notices*, (2015), Vol. 2015, pp. 6699-6733;
21. A. Aleman, A. Baranov, Y. Belov, Subspaces of  $\mathcal{H}^{\infty}$  invariant under the differentiation, *Journal of Functional Analysis* 268 (2015), pp. 2421–2439;
22. Y. Belov, Complementability of exponential systems, *C. R. Math. Acad. Sci. Paris*, 353 (2015), pp. 215-218;
23. A. Baranov, Y. Belov, A. Borichev, D. Yakubovich, Recent developments in spectral synthesis for exponential systems and for non-self-adjoint operators, *Recent Trends in Analysis Proceedings of the conference in honor of Nikolai Nikolski*, Theta Foundation, Bucharest, (2013), pp. 17-34.
24. A. Baranov, Y. Belov, A. Borichev, Hereditary completeness for systems of exponentials and reproducing kernels, *Advances in Mathematics* 235 (2013), pp. 525-554.
25. A. Baranov, Y. Belov, A. Borichev, A restricted shift completeness problem, *Journal of Functional Analysis* 263 (2012), pp. 1887-1893;
26. A. Baranov, Y. Belov, System of reproducing kernels and their biorthogonal: completeness or non-completeness? *International Math Research Notes* 22 (2011), pp. 5076-5108;
27. Y. Belov, T. Mengestie, K. Seip, Discrete Hilbert transforms on sparse sequences, *Proc. of London Math. Society* (2011), Vol. 103, 73-105;

28. Y. Belov, T. Mengestie, and K. Seip, Unitary discrete Hilbert transforms, *Journal D'Analyse Mathématique* (2010), Vol.112, p.383-395;
29. Y. Belov, Necessary conditions for the admissibility of majorants for some model subspace, (Russian) *Algebra i Analiz* 20 (2008), no. 4, 1-26; translation in *St. Petersburg Math. J.* 20 (2009), no. 4, 507-525;
30. Y. Belov, Model functions with an almost prescribed modulus, (Russian) *Algebra i Analiz* 20 (2008), no. 2, 3-18; translation in *St. Petersburg Math. J.* 20 (2009), no. 2, 163-174;
31. Y. Belov, Criteria for the admissibility of majorants for model subspaces with a rapidly increasing argument of the generating inner function, (Russian) *Zap. Nauchn. Sem. St.- Peterburg. Otdel. Mat. Inst. Steklov. (POMI)* 345 (2007), Issled. po Linein. Oper. i Teor. Funkts. 34, 55-84, 141; translation in *J. Math. Sci. (N. Y.)* 148 (2008), no. 6, 813-829;
32. Y. Belov, V.P. Khavin, On a theorem of I. I. Privalov on the Hilbert transform of Lipschitz functions, (Russian) *Mat. Fiz. Anal. Geom.* 11 (2004), no. 4, 380-407