

Ten career-best research outputs

- [1] Caspers M., Potapov D., Sukochev F., Zanin D. *Weak type commutator and Lipschitz estimates: resolution of the Nazarov-Peller conjecture*. Amer. J. Math., to appear.
- [2] Sukochev, F.; Zanin, D. *Connes integration formula for the noncommutative plane*. Comm. Math. Phys. **359** (2018), no. 2, 449–466.
- [3] Connes A., Sukochev F., Zanin D. *Trace Theorem for quasi-Fuchsian groups*. Mat. Sb. **208** (2017), no. 10, 59–90.
- [4] Junge M., Sukochev F., Zanin D. *Embeddings of symmetric operator spaces into \mathcal{L}_p -spaces on finite von Neumann algebras*. Adv. Math. **312** (2017), 473–546.
- [5] Lord S., McDonald E., Sukochev F., Zanin D. *Quantum differentiability of essentially bounded functions on Euclidean space*. J. Funct. Anal. **273** (2017), no. 7, 2353–2387.
- [6] Jiao Y., Sukochev F., Zanin D. *Johnson-Schechtman and Khinchine inequalities in noncommutative probability theory*. J. Lond. Math. Soc. (2) **94** (2016), no. 1, 113–140.
- [7] Carey A., Rennie A., Sukochev F., Zanin D. *Universal measurability and the Hochschild class of the Chern character*. J. Spectr. Theory **6** (2016), 1–41.
- [8] Dykema K., Sukochev F., Zanin D. *A decomposition theorem in II_1 -factors*. J. Reine Angew. Math. **708** (2015), 97–114.
- [9] Sukochev F., Zanin D. *Which traces are spectral?* Adv. Math. **252** (2014), 406–428.
- [10] Sukochev F., Zanin D. *Traces on symmetrically normed operator ideals*. J. Reine Angew. Math. **678** (2013), 163–200.

Authored books

- [11] Lord S., Sukochev F., Zanin D. *Singular traces: Theory and Applications*. De Gruyter Studies in Mathematics. Walter de Gruyter, Berlin, first edition, 2013.

Edited books

Book chapters

Refereed journal articles

- [12] Ber A., Sukochev F., Zanin D. *Heisenberg relation for locally measurable operators*. Adv. Math. **335** (2018), 211–230.
- [13] Connes A., McDonald E., Sukochev F., Zanin D. *Conformal trace theorem for Julia sets of quadratic polynomials*. Ergodic Theory Dynam. Systems. (published online).
- [14] Potapov D., Sukochev F., Tomskova A., Zanin D. *Frechet differentiability of the norm of L_p -spaces associated with arbitrary von Neumann algebras*. Trans. AMS, to appear.
- [15] Dykema K., Noles J., Zanin D. *Decomposability and norm convergence properties in finite von Neumann algebras*. Integral Equations Operator Theory **90** (2018), no. 5, Art. 54, 32 pp.
- [16] Jiao Y., Zhou D., Wu L., Zanin D. *Noncommutative dyadic martingales and Walsh-Fourier series*. J. Lond. Math. Soc. (2) **97** (2018), no. 3, 550–574.
- [17] Levitina G., Sukochev F., Vella D., Zanin D. *Schatten class estimates for the Riesz map of massless Dirac operators*. Integral Equations Operator Theory **90** (2018), no. 2, Art. 19, 36 pp.
- [18] Ber A., Chilin V., Sukochev F., Zanin D. *Fuglede-Putnam theorem for locally measurable operators*. Proc. Amer. Math. Soc. **146** (2018), no. 4, 1681–1692.
- [19] Dykema K., Sukochev F., Zanin D. *An upper triangular decomposition theorem for some unbounded operators affiliated to II_1 -factors*. Israel J. Math. **222** (2017), no. 2, 645–709.
- [20] Sukochev F., Usachev A., Zanin D. *Singular traces and residues of the ζ -function*. Indiana Univ. Math. J. **66** (2017), no. 4, 1107–1144.
- [21] Dykema K., Sukochev F., Zanin D. *Determinants associated to traces on operator bimodules*. J. Oper. Th. **78**:1 (2017), 119–134.
- [22] Sukochev F., Zanin D. *Fubini theorem in noncommutative geometry*. J. Funct. Anal. **272** (2017), no. 3, 1230–1264.
- [23] Sukochev F., Tulenov K., Zanin D. *Nehari type theorem for non-commutative Hardy spaces*. J. Geom. Anal. **27** (2017), no. 3, 1789–1802.
- [24] Jiao Y., Sukochev F., Zanin D., Zhou D. *Noncommutative martingale inequalities in symmetric operator spaces*. J. Funct. Anal. **272** (2017), no. 3, 976–1016.
- [25] Carey A., Gesztesy F., Grosse H., Levitina G., Potapov D., Sukochev F., Zanin D. *Trace formulas for a class of non-Fredholm operators: a review*. Reviews in Mathematical Physics, Vol. 28, No. 10 (2016) 1630002.
- [26] Dykema K., Noles J., Sukochev F., Zanin D. *On reduction theory and Brown measure for closed unbounded operators*. J. Funct. Anal. **271** (2016), no. 12, 3403–3422.
- [27] Dykema K., Sukochev F., Zanin D. *Algebras of Log-Integrable Functions and Operators*. Complex Anal. Oper. Theory. **10** (2016), no. 8, 1775–1787.
- [28] Jiao Y., Sukochev F., Xie G., Zanin D. *Φ -moment inequalities for independent and freely independent random variables*. J. Funct. Anal. **270** (2016), no. 12, 4558–4596.

- [29] Carey A., Gesztesy F., Levitina G., Potapov D., Sukochev F., Zanin D. *On index theory for non-Fredholm operators: a $(1+1)$ -dimensional example*. Math.Nachr. **289** (2016), no. 5-6, 575–609.
- [30] Aubrunn G., Sukochev F., Zanin D. *Catalysis in the trace class and weak trace class ideals*. Proc. Amer. Math. Soc. **144** (2016), no. 6, 2461–2471.
- [31] Dykema K., Sukochev F., Zanin D. *Holomorphic functional calculus on upper triangular forms in finite von Neumann algebras*. Illinois J. Math. **59** (2015), no. 3, 819–824.
- [32] Astashkin S., Sukochev F., Zanin D. *On uniqueness of distribution of a random variable whose independent copies span a subspace in L_p* . Studia Math. **230** (2015), no. 1, 41–57.
- [33] Semenov E., Sukochev F., Usachev A., Zanin D. *Banach limits and traces on $\mathcal{L}_{1,\infty}$* . Adv. Math. **285** (2015), 568–628.
- [34] Potapov D., Sukochev F., Usachev A., Zanin D. *Singular traces and perturbation formulae of higher order*. J. Funct. Anal. **269** (2015), no. 5, 1441–1481.
- [35] Caspers M., Potapov D., Sukochev F., Zanin D. *Weak type estimates for the absolute value mapping*. J. Operator Theory **73** (2015), no. 2, 361–384.
- [36] Sukochev F., Usachev A., Zanin D. *Dixmier traces generated by exponentiation invariant generalised limits*. J. Noncommut. Geom. **8** (2014), no. 2, 321–336.
- [37] Potapov D., Sukochev F., Tomskova A., Zanin D. *Frechet differentiability of the norm of L_p -spaces associated with arbitrary von Neumann algebras*. C. R. Math. Acad. Sci. Paris **352** (2014), no. 11, 923–927.
- [38] Astashkin S., Sukochev F., Zanin D. *Disjointification inequalities in symmetric quasi-Banach spaces and their applications*. Pacific J. Math. **270** (2014), no. 2, 257–285.
- [39] Potapov D., Sukochev F., Zanin D. *Krein's trace theorem revisited*. J. Spectr. Theory **4** (2014), no. 2, 415–430.
- [40] Sukochev F., Zanin D. *Dixmier traces are weak* dense in the set of all fully symmetric traces*. J. Funct. Anal. **266** (2014), no. 10, 6158–6173.
- [41] Levitina G., Pietsch A., Sukochev F., Zanin D. *Completeness of quasi-normed operator ideals generated by s -numbers*. Indag. Math. (N.S.) **25** (2014), no. 1, 49–58.
- [42] Sukochev F., Usachev A., Zanin D. *Generalized limits with additional invariance properties and their applications to noncommutative geometry*. Adv. Math. **239** (2013), 164–189.
- [43] Sukochev F., Usachev A., Zanin D. *On the distinction between the classes of Dixmier and Connes-Dixmier traces*. Proc. Amer. Math. Soc. **141** (2013), no. 6, 2169–2179.
- [44] Sukochev F., Zanin D. *Johnson-Schechtman inequalities in the free probability theory*. J. Funct. Anal. **263** (2012), no. 10, 2921–2948.
- [45] Sukochev F., Zanin D. *ζ -function and heat kernel formulae*. J. Funct. Anal. **260** (2011), no. 8, 2451–2482.
- [46] Sedaev A., Sukochev F., Zanin D. *Lidskii-type formulae for Dixmier traces*. Integral Equations Operator Theory **68** (2010), no. 4, 551–572.
- [47] Kalton N., Sukochev F., Zanin D. *Orbits in symmetric spaces. II*. Studia Math. **197** (2010), no. 3, 257–274.
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- [50] Sukochev F., Zanin D. *Khinchin inequality and Banach-Saks type properties in rearrangement-invariant spaces*. Studia Math. **191** (2009), no. 2, 101–122.
- [51] Ganikhodzhaev N., Zanin D. *On a necessary condition for the ergodicity of quadratic operators defined on a two-dimensional simplex*. (Russian) Uspekhi Mat. Nauk **59** (2004), no. 3 (357), 161–162; translation in Russian Math. Surveys **59** (2004), no. 3, 571–572.

Fully refereed conference proceedings

Additional research outputs (including non-traditional research outputs)