

PUBLICATIONS

Laurian Suciu

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Doctoral Thesis :

Structure, ergodicity and applications of A-contractions, University Claude Bernard Lyon 1, France, 1-182, 2006.

Habilitation Thesis :

Ergodic and asymptotic behaviours of linear operators, similarity to contractions and Harnack analysis, Technical University of Cluj-Napoca, Romania, 1-233, 2016.

Research activity :

1) Laurian Suciu, *On operators with two-isometric liftings*, Complex Analysis and Operator Theory, 14:5, 1-16, 2020. <https://doi.org/10.1007/s11785-019-00960-9>

2) Witold Majdak and Laurian Suciu, *Brownian type parts of operators in Hilbert spaces*, Results in Mathematics, 75:5, 1-23, 2020.
<https://doi.org/10.1007/s00025-019-1130-8>

3) Witold Majdak and Laurian Suciu, *Brownian isometric parts of concave operators*, New York J. Math. 25, 1067–1090, 2019. <http://nyjm.albany.edu/j/2019/25-46.html>

4) Catalin Badea and **Laurian Suciu**, *Similarity problems, Folner sets and isometric representations of amenable semigroups*, Mediterranean Journal of Mathematics 16: 5, 2019. <https://doi.org/10.1007/s00009-018-1294-6>

5) Catalin Badea and **Laurian Suciu**, *The Cauchy dual and 2-isometric liftings of concave operators*, Journal of Math. Anal. and Appl. 472, 1458-1474, 2019.

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10) **Laurian Suciu** and Jaroslav Zemánek, *Growth conditions on Cesaro means of higher order*, Acta Sci. Math. (Szeged) Vol. 79, no 3-4, pp. 545-581, 2013.

11) Mostafa Mbekhta and **Laurian Suciu**, *Generalized inverses and similarity to partial isometries*, Journal of Mathematical Analysis and Applications vol. 372, issue 2, pp. 559-564, 2010. <https://doi.org/10.1016/j.jmaa.2010.06.022>

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13) **Laurian Suciu**, *Contractions généralisées et applications* : Prépublications de l'Institut Girard Desargues, Université Claude Bernard Lyon I, UMR 5028, 7, pp. 1-64, 2003.

Scientific contribution :

14) **Laurian Suciu**, *Ergodic behaviors of the regular operator means*, Banach Journal of Mathematical Analysis, Vol. 11, No. 2, 239-265, 2017. **doi:10.1215/17358787-3796878**

15) Catalin Badea, **Laurian Suciu**, and Dan Timotin, *Classes of contractions and Harnack domination*, Revista Matematica Iberoamericana, 33 (2), 469-488, 2017.

- 16)** Alexandru Aleman and **Laurian Suciu**, *On ergodic operator means in Banach spaces*, Integral Equations and Operator Theory, vol. 85 pp. 259-287, 2016.
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- 17)** Mostafa Mbekhta and **Laurian Suciu**, *Partial isometries and the conjecture of C. K. Fong and S. K. Tsui*, Journal of Mathematical Analysis and Applications Vol. 437, pp. 431-444, 2016. <https://doi.org/10.1016/j.jmaa.2015.12.057>
- 18)** Michael Lin and **Laurian Suciu**, *Poisson's equation for mean ergodic operators*, Contemporary Mathematics Vol. 636, pp. 141-148, 2015.
- 19)** Mostafa Mbekhta and **Laurian Suciu**, *Quasi-isometries associated to A-contractions*, Linear Algebra and its Applications Vol. 459, pp. 430-453, 2014.
<https://doi.org/10.1016/j.laa.2014.07.016>
- 20)** **Laurian Suciu** and Nicolae Suciu, *Borel-Carathéodory and Fan Type Inequalities for Hilbert space bicontractions*, Complex Analysis and Operator Theory Vol. 8, Issue 1, pp. 227-241, 2014. <https://doi.org/10.1007/s11785-013-0291-9>
- 21)** **Laurian Suciu**, *Saturation for Cesaro means of higher order*, Operators and Matrices Vol. 7, no. 3, pp. 557-572, 2013. dx.doi.org/10.7153/oam-07-30
- 22)** Witold Majdak, Nicolae Adrian Secelean, and **Laurian Suciu**, *Ergodic properties for operators in semi-Hilbertian spaces*, Linear and Multilinear Algebra Volume 61, Issue 2, pp. 139-159, 2013. <https://doi.org/10.1080/03081087.2012.667094>
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- 27) Laurian Suciu**, *Maximum A-isometric part of an A-contraction and applications*, Israel Journal of Mathematics vol. 174, pp. 419-442, 2009.
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- 28) Laurian Suciu**, *Uniformly ergodic A-contractions on Hilbert spaces*, Studia Mathematica vol. 194, pp. 1-22, 2009. DOI: 10.4064/sm194-1-1
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- 37) Laurian Suciu** and Nicolae Suciu, *On the asymptotic limit of a bicontraction*, Theta Series in Advanced Mathematics, pp. 117-135, 2012.
- 38) Laurian Suciu** and Nicolae Suciu, *Selection of semispectral measures for bicontractions*, Theta Series in Advanced Mathematics, pp. 1-21, 2010.
- 39) Laurian Suciu** and Nicolae Suciu, *Harnack ordering for pairs of commuting contractions*, Proceedings of the 6th Congress of Romanian Mathematicians, Bucharest 2007, Editura Academiei Române, vol. 1, pp. 381-398, 2009.
- 40) Gilles Cassier and Laurian Suciu**, *Mapping theorems and similarity to contractions for classes of A-contractions*, Theta Series in Advanced Mathematics, pp. 39-58, 2008.
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- 43) Laurian Suciu**, *Invertible A-contractions and applications*, Proceedings of the 9th National Conference of the Romanian Mathematical Society, Lugoj 6-7 May 2005, Ed. UVT, pp. 272-290, 2005.
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- 45) Witold Majdak and Laurian Suciu**, *On ergodic operators on semi-Hilbert spaces*, pp. 1-25, 2019.
- 46) Sanne ter Horst, Laurian Suciu, and Marten Wortel**, *Perturbations of the maximal function related to the intertwining expansion problem for contractions*, pp. 1-40, 2019.
- 47) Catalin Badea and Laurian Suciu**, *Hilbert spaces operators with two isometric dilations*, pp. 1-29, arXiv:1903.01772v3 [math.FA] 26 Jan 2020.

48) Catalin Badea, Vladimir Muller, and **Laurian Suciu**, *High order isometric liftings and dilations*, pp. 1-14, [arXiv:2003.12741v2 \[math.FA\]](https://arxiv.org/abs/2003.12741v2), 2020.

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