

## LISTA DE LUCRĂRI

Laurian Suciu

### Teza de doctorat :

*Structure, ergodicity and applications of  $A$ -contractions*, Universitatea Claude Bernard Lyon 1, Franța, numero d'ordre : 212, pp. 1-182, 2006.

### Teza de abilitare :

*Ergodic and asymptotic behaviours of linear operators, similarity to contractions and Harnack analysis*, Universitatea Tehnica din Cluj-Napoca, 1-233, 2016.

### Activitatea de cercetare :

*Lucrari finalizate prin contracte/granturi* internationale si nationale:

1) Catalin Badea and **Laurian Suciu**, *Harnack and Shmul'yan preorder relations for Hilbert space contractions*, *Indagationes Mathematicae* 28 (4), 892-912, 2017.

2) **Laurian Suciu**, *Estimations of the operator resolvent by higher order Cesaro means*, *Results in Mathematics* 69(3), pp. 457-475, 2016.

3) Witold Majdak, Mostafa Mbekhta, and **Laurian Suciu**, *Operators intertwining with isometries and Brownian parts of 2-isometries*, *Linear Algebra and its Applications* 509 (15), 168-190, 2016.

4) Michael Lin, David Shoikhet, and **Laurian Suciu**, *Remarks on uniform ergodic theorems*, *Acta Sci. Math. (Szeged)* Vol. 81, pp. 251-283, 2015.

5) **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.

6) 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.

7) Mostafa Mbekhta and **Laurian Suciu**, *Classes of operators similar to partial isometries*, Integral Equations and Operator Theory Volume 63, Number 4, pp. 571-590, 2009.

8) **Laurian Suciu**, *Structure, ergodicity and applications of  $A$ -contractions*, teza de doctorat, Universitatea Claude Bernard Lyon 1, Franța, numero d'ordre : 212, pp. 1-182, 2006; Contract internațional pentru stagiul de doctorat, Universitatea Claude Bernard Lyon 1, Franța, 2002-2005.

9) **Laurian Suciu**, *Contractions généralisées et applications* : Prépublications de l'Institut Girard Desargues, Université Claude Bernard Lyon I, UMR 5028, 7, pp. 1-64, 2003; Contract internațional de mobilitate europeana (ERASMUS/SOCRATES) pentru stagiul de masterat, Universitatea Claude Bernard Lyon 1, Franța 2001-2002.

### **Contribuția științifică :**

*Articole in reviste* cotate I. S. I. sau indexate in baze de date internaționale :

10) **Laurian Suciu**, *Ergodic behaviors of the regular operator means*, Banach Journal of Mathematical Analysis, Vol. 11, No. 2, 239-265, 2017.

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

12) Alexandru Aleman and **Laurian Suciu**, *On ergodic operator means in Banach spaces*, Integral Equations and Operator Theory, vol. 85 pp. 259-287, 2016.

13) 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.

14) Michael Lin and **Laurian Suciu**, *Poisson's equation for mean ergodic operators*, Contemporary Mathematics Vol. 636, pp. 141-148, 2015.

15) Mostafa Mbekhta and **Laurian Suciu**, *Quasi-isometries associated to  $A$ -contractions*, Linear Algebra and its Applications Vol. 459, pp. 430-453, 2014.

- 16) **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.
- 17) **Laurian Suciu**, *Saturation for Cesaro means of higher order*, Operators and Matrices Vol. 7, no. 3, pp. 557-572, 2013.
- 18) 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.
- 19) Marek Kosiek and **Laurian Suciu**, *Decompositions and asymptotic limit for bicontractions*, Annales Polonici Mathematici 105.1, pp. 43-64, 2012.
- 20) **Laurian Suciu** and Nicolae Suciu, *Inequalities for strict bicontractions*, Annals of the University of Bucharest LIX, pp. 3-15, 2010.
- 21) **Laurian Suciu**, *Quasi-isometries in semi-Hilbertian spaces*, Linear Algebra and its Applications Volume 430, Issues 8-9, pp. 2474-2487, 2009.
- 22) **Laurian Suciu** and Nicolae Suciu, *Asymptotic behaviours and generalized Toeplitz operators*, Journal of Mathematical Analysis and Applications vol. 349, issue 1, pp. 280-290, 2009.
- 23) **Laurian Suciu**, *Maximum  $A$ -isometric part of an  $A$ -contraction and applications*, Israel Journal of Mathematics vol. 174, pp. 419-442, 2009.
- 24) **Laurian Suciu**, *Uniformly ergodic  $A$ -contractions on Hilbert spaces*, Studia Mathematica vol. 194, pp. 1-22, 2009.
- 25) **Laurian Suciu**, *Canonical decompositions induced by  $A$ -contractions*, Note di Matematica vol. 28, issue 2, pp. 187-202, 2008.
- 26) **Laurian Suciu** and Nicolae Suciu, *Ergodic conditions and spectral properties for  $A$ -contractions*, Opuscula Mathematica Vol. 28, No. 2, pp. 195 – 216, 2008.
- 27) **Laurian Suciu**, *Maximum subspaces related to  $A$ -contractions and quasinormal operators*, Journal of the Korean Mathematical Society 45, No.1, pp. 205-219, 2008.
- 28) **Laurian Suciu**, *Ergodic properties for regular  $A$ -contractions*, Integral Equations and Operator Theory 56, 2, pp. 285-299, 2006.

29) **Laurian Suciu**, *Some invariant subspaces for  $A$ -contractions and applications*, Extracta Mathematicae 21 (3), pp. 221-247, 2006.

30) **Laurian Suciu** and Nicolae Suciu, *Harnack domination for contractions and related intertwining operators*, Acta Sci. Math. (Szeged) 72, pp. 319-343, 2006.

31) **Laurian Suciu**, *On the ergodic  $A$ -contractions*, Analele Univ. de Vest din Timișoara, Ser. Mat.-Inf. 2, pp. 115-136, 2004.

32) **Laurian Suciu**, *Orthogonal decomposition induced by generalized contractions*, Acta Sci. Math. (Szeged) 70, pp. 751-765, 2004.

### *Articole în Proceedings-uri*

internațională :

33) **Laurian Suciu** and Nicolae Suciu, *On the asymptotic limit of a bicontraction*, Theta Series in Advanced Mathematics, pp. 117-135, 2012.

34) **Laurian Suciu** and Nicolae Suciu, *Selection of semispectral measures for bicontractions*, Theta Series in Advanced Mathematics, pp. 1-21, 2010.

35) **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.

36) 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.

37) **Laurian Suciu**, *Block representation for  $A$ -contractions*, Theta Series in Advanced Mathematics, pp. 201-216, 2008.

38) **Laurian Suciu**, *Ergodic properties and saturation for  $A$ -contractions*, Theta Series in Advanced Mathematics, pp. 225-242, 2006.

națională :

39) **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.

40) **Laurian Suciu**, *Sur les contractions quasi-normales*, Proceedings of the National Conf. of Math. Anal. and Appl., Timișoara 2000, pp. 395-404, 2000.

### ***Preprinturi***

41) Catalin Badea and **Laurian Suciu**, *Brownian unitary dilations and 2-isometric liftings of operators*, pp. 1-25, 2016, submitted.

42) Witold Majdak and **Laurian Suciu**, *On ergodic operators on semi-Hilbert spaces*, pp. 1-25, 2016.

43) Catalin Badea, Vladimir Muller, and **Laurian Suciu**,  *$m$ -isometric dilations for power dominated operators*, pp. 1-20, 2017.

44) Sanne ter Horst, **Laurian Suciu**, and Marten Wortel, *Perturbations of the maximal function related to the intertwining expansion problem for contractions*, pp. 1-40, 2017.