

Publications, Christian Le Merdy

- [1] Cas vectoriel du théorème d'Adamjan, Arov et Krein (d'après Treil) et applications. *Séminaire Initiation à l'Analyse, Paris 6*, Exposé 7 (1990/91).
- [2] Le théorème AAK dans les espaces de type 2. *C.R. Acad. Sci. de Paris*, Série I 312 (1991), 513-517.
- [3] Le théorème AAK sur H^p ($2 \leq p \leq +\infty$). *Séminaire Initiation à l'Analyse, Paris 6*, Exposé 12 (1991/92).
- [4] Fonctions analytiques à valeurs vectorielles et formes bilinéaires hankéliennes. *Thèse de Doctorat de l'Université Paris 6*, 1992.
- [5] On module maps and bilinear forms defined on shift-invariant subspaces of $L^p(X)$. *Journal of Funct. Anal.* 106 (1992), 18-35.
- [6] Formes bilinéaires hankéliennes compactes sur $H^2(X) \times H^2(Y)$. *Math. Annalen* 293 (1992), 371-384.
- [7] The Adamjan-Arov-Krein theorem on H^p -spaces ($2 \leq p \leq \infty$) and on the disc algebra. *Bull. London Math. Soc.* 25 (1993), 275-281.
- [8] Analytic factorizations and completely bounded maps. *Israël Journal of Math.* 88 (1994), 381-409.
- [9] On the duality of operator spaces. *Canadian Bull. of Math.* 38 (1995), 334-346.
- [10] On quotients of function algebras, and operator algebra structures on ℓ_p (avec D. Blecher). *Journal of Operator Theory* 34 (1995), 315-346.
- [11] Factorization of p -completely bounded multilinear maps. *Pacific Journal of Math.* 172 (1996), 187-213.
- [12] Representation of a quotient of a subalgebra of $B(X)$. *Math. Proc. Camb. Phil. Soc.* 119 (1996), 83-90.
- [13] On dilation theory for c_o -semigroups on Hilbert space. *Indiana Univ. Math. J.* 45 (1996), 945-959.
- [14] Un calcul fonctionnel joint pour des opérateurs sectoriels (avec F. Lancien et G. Lancien). *C.R. Acad. Sciences Paris*, Série I t. 323 (1996), 263-268.
- [15] A remark on the tensor product of two maximal operator spaces. *Proc. Edinburgh Math. Soc.* 40 (1997), 375-381.

- [16] The similarity problem for bounded analytic semigroups on Hilbert space. *Semigroup Forum* 56 (1998), 205-224.
- [17] The Schatten space S_4 is a Q -algebra. *Proc. Amer. Math. Soc.* 126, No. 3 (1998), 715-719.
- [18] A joint functional calculus for sectorial operators with commuting resolvents (avec F. Lancien et G. Lancien). *Proc. London Math. Soc.* 77 (1998), 387-414.
- [19] A generalized H^∞ functional calculus for operators on subspaces of L^p and application to maximal regularity (with G. Lancien). *Illinois J. Math.* 42 (1998), 470-480.
- [20] Joint functional calculus on nuclear C^* -algebras and on the disc algebra. *Ulmer Seminare* 3 (1998), 295-311.
- [21] Counterexamples on L_p -maximal regularity. *Math. Zeitschrift* 230 (1999), 47-62.
- [22] An operator space characterization of dual operator algebras. *American J. Math.* 121 (1999), 55-63.
- [23] Factorization through matrix spaces for finite rank operators between C^* -algebras (avec M. Junge). *Duke Math. Journal* 100 (1999), 299-319.
- [24] Finite rank approximation and semidiscreteness for linear operators. *Annales Inst. Fourier* 49 (1999), 1869-1901.
- [25] H^∞ -functional calculus and applications to maximal regularity. *Publications Math. Besançon* 16 (1999), 41-77.
- [26] A strong similarity property of nuclear C^* -algebras. *Rocky Mountain J. Math.* 30 (2000), 279-292.
- [27] A bounded compact semigroup on Hilbert space not similar to a contraction one. *Progress in Nonlinear Diff. Eq. and Appl.* 42 (2000), 213-216.
- [28] Self adjointness criteria for operator algebras. *Archiv der Math.* 74 (2000), 212-220.
- [29] The weak* similarity property on dual operator algebras. *Integral Eq. and Op. Theory* 37 (2000), 72-94.
- [30] On function and operator modules (avec D. Blecher). *Proc. Amer. Math. Soc.* 129 (2001), 833-844.
- [31] A factorization problem for normal completely bounded mappings (avec B. Magajna). *Journal of Funct. Anal.* 181 (2001), 313-345.

- [32] Sums of commuting operators with maximal regularity (avec A. Simard). *Studia Mathematica* 147 (2001), 103-118.
- [33] Solution of a problem of Peller concerning similarity (avec N. Kalton). *J. Operator Theory* 47 (2002), 379-387.
- [34] A factorization property of R -bounded sets of operators on L^p -spaces (avec A. Simard). *Math. Nachrichten* 243 (2002), 146-155.
- [35] Caractérisation des espaces 1-matriciellement normés (avec L. Mezrag). *Serdica Math. J.* 28 (2002), 201-206.
- [36] Two results about H^∞ functional calculus on analytic UMD Banach spaces. *J. Austr. Math. Soc.* 74 (2003), 351-378.
- [37] The Weiss conjecture for bounded analytic semigroups. *J. London Math. Soc.* 67 (2003), 715-738.
- [38] Similarities of ω -accretive operators. *Proc. CMA Canberra* 41 (2003), 84-95.
- [39] Calcul fonctionnel et fonctions carrées dans les espaces L^p non commutatifs (avec M. Junge et Q. Xu). *C.R. Acad. Sciences Paris, Série I* t. 337 (2003), 93-98.
- [40] On square functions associated to sectorial operators. *Bulletin de la SMF*, 132 (2004), 137-156.
- [41] Operator algebras and their modules - An operator space approach (avec D. Blecher). A book edited by *Oxford University Press*, 2004.
- [42] α -admissibility of observation and control operators (avec B. Haak). *Houston J. Math.* 31 (2005), 1153-1167.
- [43] Square functions and H^∞ calculus on subspaces of L^p and on Hardy spaces (avec F. Lancien). *Math. Zeitschrift* 251 (2005), 101-115.
- [44] H^∞ functional calculus and square functions on non commutative L^p -spaces (avec M. Junge et Q. Xu). *Astérisque Soc. Math. France*, Vol. 305, 138 pages, 2006.
- [45] Square functions, bounded analytic semigroups, and applications. *Banach Center Publications* 75 (2007), 191-220.
- [46] Dilations and rigid factorizations on noncommutative L^p -spaces (avec M. Junge). *Journal of Funct. Anal.* 249 (2007), 220-252.
- [47] H^p -maximal regularity and operator valued multipliers on Hardy spaces (avec S. Bu). *Canadian J. Math.* 59 (2007), 1207-1222.

- [48] L^p -matricially normed spaces and operator space valued Schatten spaces (avec M. Junge et L. Mezrag). *Indiana Univ. J. Math.* 56 (2007), 2511-2534.
- [49] Rademacher averages on noncommutative symmetric spaces (avec F. Sukochev). *Journal of Funct. Anal.*, 255 (2008), 3329-3355. Pdf
- [50] Completely 1-complemented subspaces of Schatten spaces (avec É. Ricard et J. Roydor). *Transactions Amer. Math. Soc.* 361 (2009), 849-887. Pdf
- [51] Tensor extension properties of $C(K)$ -representations and applications to unconditionality (avec C. Kriegler). *Journal of Australian Math. Soc.* 88 (2010), 205-230. Pdf
- [52] γ -bounded representations of amenable groups. *Advances in Math.* 224 (2010), 1641-1671. Pdf
- [53] Maximal theorems and square functions for analytic operators on L^p -spaces (avec Q. Xu). *Journal London Math. Soc.* 86 (2012), 343-365. Pdf
- [54] Strong q -variation inequalities for analytic semigroups (avec Q. Xu). *Annales Institut Fourier* 62 (2012), 2069-2097. Pdf
- [55] A sharp equivalence between H^∞ functional calculus and square function estimates. *J. Evolution Equation* 12 (2012), 789-800. Pdf
- [56] α -admissibility for Ritt operators. *Complex Anal. Oper. Theory* 8 (2014), 665-681. Pdf
- [57] Dilation of Ritt operators on L^p -spaces (avec C. Arhancet). *Israël J. Math.* 201 (2014), 373-414. Pdf
- [58] H^∞ functional calculus and square function estimates for Ritt operators. *Rev. Mat. Iberoam.* 30 (2014), 1149-1190. Pdf
- [59] On functional calculus properties of Ritt operators (avec F. Lancien). *Proc. Roy. Soc. Edinburgh Sect. A* 145 (2015), 1239-1250. Pdf
- [60] Decomposability of bimodule maps (avec L. Oliveira). *Math. Scand.* 119 (2016), 283-292. Pdf
- [61] Resolution of Peller's problem concerning Koplienko-Neidhardt trace formulae (avec C. Coine, D. Potapov, F. Sukochev et A. Tomskova). *Proc. Lond. Math. Soc.* 113 (2016), 113-139. Pdf
- [62] Peller's problem concerning Koplienko-Neidhardt trace formulae: the unitary case. (avec C. Coine, D. Potapov, F. Sukochev et A. Tomskova). *J. Funct. Anal.* 271 (2016), 1747-1763. Pdf

- [63] Isometric dilations and H^∞ calculus for bounded analytic semigroups and Ritt operators (avec C. Arhancet et S. Fackler). *Trans. Amer. Math. Soc.* 369 (2017), 6899-6933. Pdf
- [64] The Ritt property of subordinated operators in the group case (avec F. Lancien). *J. Math. Anal. Appl.* 462 (2018), 191-209. Pdf
- [65] Higher order S^2 -differentiability and extension of the Koplienko trace formula (avec C. Coine, A. Skripka et F. Sukochev). *J. Funct. Anal.* 276 (2019), 3170-3204. Pdf
- [66] New counterexamples on Ritt operators, sectorial operators and R -boundedness (avec L. Arnold). *Bull. Aust. Math. Soc.* 100 (2019), 498-506. Pdf
- [67] H^∞ -functional calculus for commuting families of Ritt operators et sectorial operators (avec O. Arrigoni). *Oper. Matrices* 13 (2019), 1055-1090. Pdf
- [68] Bilinear operator multipliers into the trace class (avec I. Todorov et L. Turowska). *J. Funct. Anal.* 279 (2020), no. 7, 108649, 40 pp. Pdf
- [69] Higher order differentiability of operator functions in Schatten norms (avec A. Skripka). *J. Inst. Math. Jussieu* 19 (2020), 1993-2016. Pdf
- [70] ℓ^1 -contractive maps on noncommutative L^p -spaces (avec S. Zadeh). *J. Operator Theory* 85 (2021), 417-442. Pdf
- [71] New properties of the multivariable H^∞ -functional calculus of sectorial operators (avec O. Arrigoni). *Integral Eq. Op. Theory* 93 (2021), Paper No. 39, 32 pp. Pdf
- [72] Necessary and sufficient conditions for n -times Fréchet differentiability on S^p , $1 < p < \infty$ (avec E. McDonald). *Proc. Amer. Math. Soc.*, 149 (2021), no. 9, 3881-3887. Pdf
- [73] When do triple operator integrals take value in the trace class? (avec C. Coine et F. Sukochev). *Annales Inst. Fourier*, 71 (2021), no. 4, 1393-1448. Pdf
- [74] Surjective separating maps on noncommutative L^p -spaces (avec S. Zadeh). *Math. Nachrichten*, 295 (2022), 175-188. Pdf
- [75] On factorization of separating maps on noncommutative L^p -spaces (avec S. Zadeh). *Indiana Univ. Math. J.*, 71 (2022), 1967-2000. Pdf
- [76] Functional calculus for a bounded C_0 -semigroup on Hilbert space (avec L. Arnold). *J. Funct. Anal.* 284 (2023), Paper No. 109900, 49 pp. Pdf
- [77] S^1 -bounded Fourier multipliers on $H^1(\mathbb{R})$ and functional calculus for semigroups (avec L. Arnold et S. Zadeh). *J. Analyse Math.*, to appear. Pdf

- [78] Polygonal functional calculus for operators with finite peripheral spectrum (avec O. Bouhabdillah). *Israël J. Math.*, to appear. Pdf
- [79] Hankel operators on $L_p(\mathbb{R}_+)$ and their p -completely bounded multipliers (avec L. Arnold et S. Zadeh). Preprint 2023. Pdf
- [80] A characterization of absolutely dilatable Schur multipliers (avec C. Duquet). Preprint 2023. Pdf
- [81] Separating Fourier and Schur multipliers (avec C. Arhancet, C. Kriegler et S. Zadeh). Preprint 2023. Pdf
- [82] A new approach to γ -bounded representations. Preprint 2023.