

# Hilbert C\*-modules and related subjects – a guided reference overview

Michael Frank ©  
mfrank@imn.htwk-leipzig.de or  
michael.frank.leipzig@gmx.de

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## §1 About

Hilbert C\*-modules are an often used tool in operator and operator algebra theory. They serve as a major class of examples in operator C\*-module theory. Beside this, the theory of Hilbert C\*-modules is very interesting on its own. Interacting with the theory of operator algebras and including ideas from non-commutative geometry it progresses and produces results and new problems attracting attention.

At the contrary, the pieces of the theory of Hilbert C\*-modules are still rather scattered through the literature. Most publications explain only as many definitions and results as necessary for the striven for applications in the fields considered there in the main. However, there are some papers and chapters in monographs and lecture notes that give comprehensive representations of parts of the theory.

The purpose of the present reference overview is to show a practicable way for systematic studies of the theory of Hilbert C\*-modules. Great emphasis is put on the historical consistency of the presented sources following the line of ideas and applications. Since the term "Hilbert ... modules" is in use for at least five mathematically more or less different concepts one has always to pay attention what kind of theory is considered. For the convenience of the reader we list the basic publications for all known concepts wherein the notion "Hilbert ... modules" appears. As a guide we refer to some basic publications on Hilbert C\*-modules representing essential achievements of the theory. A second guide gives a short list of research fields wherein Hilbert C\*-modules are in use very actively, and some publications representing these ways of application.

The reader has to take into account that the choice of the sources is limited by the author's research interests and linguistic proficiency, as well as by the availability of sources. He apologizes for a probable insufficient representation of the work of some colleagues in the present overview. All suggestions, corrections and supplements are welcome.

## §2 Guide (part I)

*Roots of the quite different notions of "Hilbert ... modules":*

I. KAPLANSKY, 1953, [639], H. WIDOM, 1956, [1377] : AW\*-algebras, inner product AW\*-modules (Kaplansky-Hilbert modules).

R. M. LOYNES, 1965, [803]: VH-spaces, LVH-spaces.

R. G. SWAN, 1962, [1243], J. DIXMIER and A. DOUADY, 1963, [312]: vector bundles, projective modules.

A. O. TAKAHASHI, 1971, [1254, 1255, 1253], K. H. HOFMANN, 1972, [532], M. J. DUPRÉ, 1972, [325, 326, 327], (H. TAKEMOTO, 1973-76, [1256, 1257, 1258],) J. VARELA, 1974, [1333]: Hilbert bundles, continuous fields of Hilbert spaces and of Banach algebras / A categorial equivalence between (F)Hilbert bundles on compact spaces  $K$  and Hilbert  $C(K)$ -modules.

N. WIENER, P. R. MASANI, 1957-66, [1378, 1379, 862, 864], H. H. GOLDSTINE and L. P. HORWITZ, 1966, [474], P. P. SAWOROTNOW, 1968, [1153]: Hilbert ( $H^*$ -)modules over matrix algebras/Hilbert\*-algebras. (Hilbert  $H^*$ -modules are Hilbert C\*-modules iff the  $H^*$ -algebra is finite dimensional, i.e. a matrix algebra.) [see the second list of references]

D. BURES, 1971, [210]: special  $W^*$ -valued inner products on von Neumann algebras.

W. L. PASCHKE, 1972/73, [1012, 1013]: one **trailblazing paper** in Hilbert C\*-module theory.

- M. A. RIEFFEL, 1972/74, [1105, 1106, 1107]: the other **trailblazing papers**, about Hilbert  $C^*$ -modules and (strong) Morita equivalence of  $C^*$ -algebras.
- Y. KAKIHARA, 1979-1984, [615, 616, 617, 618, 619] [622]: Hilbert  $B(H)$ -modules with trace class valued inner product.
- J. PINCKET, 1986, [1059]: inner product  $C^*$ -modules where the values of the inner product belong to the duals of the underlying  $C^*$ -algebras.
- (A. FRYDRYSZAK, L. JAKOBCZYK, 1988, [454] : Hilbert modules over infinite-dimensional Grassman-Banach algebras.)
- (R. G. DOUGLAS, V. I. PAULSEN, 1989, [317] ([926]): "Hilbert modules" := Hilbert spaces with a special  $C^*$ -module structure on them, but without  $C^*$ -valued inner product) [see the third list of references]
- (N. C. PHILLIPS, 1989, [1050]: Hilbert modules over pro- $C^*$ -algebras (i.e., over inverse limits of  $C^*$ -algebras))
- G. ZELLER-MEIER, 1991, [1415, 1416]: Banach- $C^*$ -modules equipped with an  $C^*$ -algebra valued inner product which is not necessarily  $C^*$ -linear/ $C^*$ -antilinear in its arguments.
- D. P. BLECHER, 1995, [152, 154, 165, 162, 164]: Hilbert modules over non-self-adjoint operator algebras, extending the concept of Hilbert  $C^*$ -modules / an alternative approach to Hilbert  $C^*$ -modules and self-dual Hilbert  $W^*$ -modules.
- H. BURSZTYN, S. WALDMANN, 1999-2005, [220, 219, 221, 222, 1354, 1353]: Hilbert modules over algebras with involution  $C$  that are quadratic extensions by  $i$  of an ordered ring; algebraic Rieffel induction, formal Morita equivalence and Morita equivalence of rings.
- YU. I. JURAYEV, F. SARIPOV, 2000, [597, 1189] and M. JOIȚA, 2001-2008, [566, 567, 568, 569, 570, 573, 571, 576, 577, 575, 578, 579]: Hilbert modules over locally  $C^*$ -algebras.
- J. PASEKA, 1999-2004, [1018, 1019, 1020, 1021, 1022, 1023]: Hilbert modules over involutive quantales, Rieffel induction, Morita equivalence of involutive quantales.
- P. MITCHENER, 2001, [901]: Hilbert modules over  $C^*$ -categories, i.e. over categories consisting of a collection of Hilbert spaces and bounded linear operators between them.
- M. JUNGE, D. SHERMAN, 2001-05, [1191, 1192, 596]: construction of classes of von Neumann algebra modules by considering "column sums" of noncommutative  $L_p$ -spaces, whereby the characterization is based on an  $L_{p/2}$ -valued inner product.
- R. EXEL, 2004, [377]: construction of  $C^*$ -valued inner products on  $C^*$ -subalgebras  $B$  of  $C^*$ -algebras  $A$  by interactions, the range of which exceeds  $B$  and is contained in  $A$ .
- K. SCHMÜDGEN, 2007, [1162]: bimodules over (unbounded) complex unital  $*$ -algebras with algebra-valued sesquilinear forms, towards noncommutative real algebraic geometry.
- V. LAFFORGUE, W. PARAVICINI, 2004-2009, [750, 1001, 1002]. New notion of Morita equivalence of Banach algebras, applications to  $KK$ -theory.

*Useful papers about Hilbert  $C^*$ -modules from an axiomatic point of view on the theory:*

- I. KAPLANSKY [639]/ H. WIDOM [1377]/ W. L. PASCHKE [1013, 1015]/ M. A. RIEFFEL [1106, 1107]/ G. G. KASPAROV [649]/ M. J. DUPRÉ, P. A. FILLMORE [328]/ M. I. GEKHTMAN [464]/ E. V. TROÍTSKY [1302]/ J. CUNTZ, N. HIGSON [286]/ O. G. FILIPPOV [399]/ J.-F. HAVET [506]/ H. LIN [786, 788, 789]/ G. ZELLER-MEIER [1415, 1416]/ S. ZHANG [1440]/ M. HAMANA [498]/ E. C. LANCE [754]/ L. G. BROWN, J. A. MINGO AND NIEN-TSU SHEN [185]/ V. M. MANUILOV [845, 847, 850]/ J. KUSTERMANS [733]/ M. FRANK [413, 417, 422]/ M. FRANK, D. R. LARSON [434, 435]/ A. PAL, [998]/ D. POPOVICI, 1996-2000, [1071, 1073, 1074, 1076, 1075, 1070]/ M. FRANK, D. R. LARSON, 1998-2000, [434, 433, 435]/ V. M. MANUILOV, E. V. TROITSKY, 1998, [853, 1316, 856]/ B. SOLEL, 2001, [1236]/ M. KAUR, ZHONG-JIN RUAN, 2002, [1141, 678]/ K. KAWAMURA, [679]/ L. ARAMBAŠIĆ, 2004, [69]/ and many more.

*Ph.D. and Habilitation theses using Hilbert  $C^*$ -modules essentially:*

- A. O. TAKAHASHI, 1971, [1253]/ M. J. DUPRÉ, 1972, [325]/ W. L. PASCHKE, 1972, [1012]/ W. BEER, 1981, [125]/ J. A. MINGO, 1982, [887]/ N.-T. SHEN, 1982, [1190]/ V. A. TROFI-MOV, 1987, [1296]/ J. WEIDNER, 1987, [1370]/ Y. YANG, 1987, [1407]/ M. LESCH, 1988, [780]/

S. ZHANG, 1988, [1437]/ M. FRANK, 1988, [409]/ S. ECHTERHOFF, 1990, [334]/ B. ABADIE, 1992, [1]/ HUU HUNG BUI, 1992, [201]/ E. BLANCHARD, 1993, [146]/ S. P. KALISZEWSKI, 1994, [628]/ D. KUCEROVSKY, 1994, [718]/ G. ZIMMERMANN, 1994, [1455]/ J. CLARKE, 1995, [256]/ ARUP-KUMAR PAL, 1995, [997]/ B. ASHTON, 1996, [85]/ TH. SCHICK, 1996, [1156]/ J. SCHWEIZER, 1996, [1167]/ D. R. BUSKE, 1997, [224]/ M. FRANK, 1997, [419]/ M. J. GRUBER, 1998, [483]/ H. REICH, 1998, [1100]/ D. DRINEN, 1999, [319]/ V. LAFFORGUE, 1999, [748]/ B. BUCICOV-SCHI, 2000, [200]/ A. LASAROW, 2000, [773]/ Z. MOSAVI, 2000, [908]/ H. BURSZTYN, 2001, [216]/ D. DUMITRAȘCU, 2001, [322]/ J. HELLMICH, 2001, [510]/ D. SHERMAN, 2001, [1191]/ M. SKEIDE, 2001, [1216]/ S. VASSOUT, 2001, [1342]/ F. M. BRÜCKLER, 2002, [197]/ D. ILIŠEVIĆ, 2002, [539]/ M. I. MERKLEN OLIVERA, 2002, [969]/ M. TOMFORDE, 2002, [1281]/ R. VERGNIoux, 2002, [1343]/ CH. WAHL, 2002, [1347, 1351]/ M. AMYARI, 2003, [29]/ I. HIRSHBERG, 2003, [526]/ M. KANEDA, 2003, [638]/ R. RAJIC, 2003, [1095]/ P. J. WOOD, 2003, [1385]/ T. M. CARLSEN, 2004, [240]/ J. RAVEN, 2004, [1099]/ T. CRISP, 2004, [280]/ L. ARAMBAŠIĆ, 2005, [70]/ B. KOLAREC, 2005, [710]/ F. LLEDO, 2005, [796]/ F. LUEF, 2005, [825]/ TH. TIMMERMANN, 2005, [1268]/ C. FARTHING, 2006, [394]/ WU JING, 2006, [564]/ K. T. COWARD, 2007, [278]/ W. PARAVICINI, 2007, [1001]/ A. BECKEN, 2008, [124]/ K. SHARIFI, 2008, [1182]. MRS. ARIYANI, 2008, [78]/ A. CIUPERCA, 2008, [252]/ J. BHOWMICK, 2009, [137]/

*Books / Chapters in books and monographs / Conferences about Hilbert  $C^*$ -modules:*

Books: E. C. LANCE, 1993, [754]/ I. RAEBURN, D. P. WILLIAMS, 1998, [1094]/ V. M. MANUILOV, E. V. TROITSKY, 1998/2000, [856, 853, 1316]/ J. M. GRACIA-BONDÍA, J. C. VÁRILLY, H. FIGUEROA, 2001, [478]/ M. SKEIDE, 2001, [1215]/ (XIAOMAN CHEN, KUNYU GUO, 2003, [247])/ V. M. MANUILOV, E. V. TROITSKY, 2005, [857]/ M. JOIȚA, 2006, [580].

Lecture Notes: M. SKEIDE, 2000, [1213]/ YU. A. KORDYUKOV, 2005, [712]/ J. C. VÁRILLY, 2006, [1334].

Chapters: A. S. MISHCHENKO, 1984, [896] / B. BLACKADAR, 1986, [144] / V. I. ISTRĂȚESCU, 1987, [554] / N. C. PHILLIPS, 1989, [1049] / K. K. JENSEN, K. THOMSEN, 1991, [560] ([1265]) / N. E. WEGGE-OLSEN, 1993, [1368] ([1367]) / H. SCHRÖDER, 1993, [1164]/ A. CONNES, 1994, [269]/ P. A. FILLMORE, 1996, [402]/ E. V. TROITSKY, YU. P. SOLOVYOV, 1996/2001, [1238]/ G. LANDI, 1997, [756]/ N. P. LANDSMAN, 1998, [762, 760]/ C. CONSTANTINESCU, 2001, [275]/ N. WEAVER, 2001, [1365]/ W. LÜCK, 2002, [815]/ P. ARA, M. MATHIEU, 2003, [67]/ D. P. BLECHER, CH. LE MERDY, 2004, [165]/ I. RAEBURN, 2005, [1088]/ B. BLACKADAR, 2006, [145]/ K. B. SINHA, D. GOSWAMI, 2007, [1202]/ D. P. WILLIAMS, 2007, [1380]/ V. E. NAZAIKINSKII, A. YU. SAVIN, B. YU. STERNIN, 2008, [945]/ TH. TIMMERMANN, 2008, [1273].

Conference: *Hilbert  $C^*$ -modules and groupoid  $C^*$ -algebras*, Kyoto, Japan, Jan. 25-27, 1999, [258].

### §3 Guide (part II)

The aim of this guide is to claim some bigger areas of research, where Hilbert  $C^*$ -modules have been used very actively and successfully. Listing an author's publication means to list it as an example of a useful application of the theory of Hilbert  $C^*$ -modules in that area of research. Of course, the main contributions to the subjects listed below often rest on quite different mathematical methods. To keep the guide short and instructive we mention only a few publications. For further sources the reader has to consult these publications and the references therein.

*K-theory and KK-theory of operator algebras (G. G. Kasparov's approach):*

G. G. KASPAROV, 1980-90, [651, 653, 652]/ M. V. PIMSNER, D. VOICULESCU, 1980, [1058]/ G. SKANDALIS, 1984/88/91, [1206, 1207, 1208]/ W. L. PASCHKE, 1985, [1017]/ M. V. PIMSNER, 1985, [1055]/ E. V. TROITSKY, 1985, [1297]/ B. BLACKADAR, 1986, [144]/ J. CUNTZ, 1986, [284]/ N. C. PHILLIPS, 1987/89, [1046, 1049]/ M. A. RIEFFEL, 1987, [1116]/ J. A. PACKER, 1988, [990]/ J. ROSENBERG, 1990, [1135]/ K. K. JENSEN, K. THOMSEN, 1991, [560]/ S. ZHANG, 1991/92/93, [1441, 1442, 1449, 1452]/ N. E. WEGGE-OLSEN, 1993, [1368]/ V. LAFFORGUE, 1999/2002, [748, 749]/ R. VERGNIoux, 2002/2004, [1343, 1344]/ D. DUMITRAȘCU, 2002, [322, 323]/ A. S. TOMS, 2006, [1288]/ P. F. BAUM, R. J. SÁNCHEZ-GARCÍA, 2009, [117]/ J. ROSENBERG, 2009, [1136]/ and others.

*Cuntz semigroups of  $C^*$ -algebras and applications:*

J. CUNTZ, 1978, [283]/ A. S. TOMS, 2005-2009, [1287, 1289, 1290, 1291]/ K. T. COWARD, 2007, [278]/ A. CIUPERCA, N. P. BROWN, G. A. ELLIOTT, C. IVANESCU, K. KAWAMURA, F. PERERA, L. ROBERT, A. SANTIAGO, A. S. TOMS, 2006-2010, [189, 190, 254, 278, 279, 363, 1128, 253, 1129]/ G. A. ELLIOTT, A. S. TOMS, 2008, [368]/ P. ARA, F. PERERA, A. S. TOMS, 2009, [68]/ N. P. BROWN, A. CIUPERCA, 2009, [187]/ HUAXIN LIN, 2010, [793]/ and others.

*Strong Morita equivalence of  $C^*$ -algebras and its application to group representation theory and crossed product  $C^*$ -algebras:*

M. A. RIEFFEL, 1974, [1106, 1107]/ L. G. BROWN, P. GREEN, M. A. RIEFFEL, 1977, [184]/ P. GREEN, 1978, [479]/ W. BEER, 1981/82, [125, 126]/ H. H. ZETTL, 1982, [1419, 1418]/ F. COMBES, H. H. ZETTL, 1983, [261]/ F. COMBES, 1984, [260]/ I. PUTNAM, 1985, [1077]/ R. J. PLYMEN, 1986/90, [1062, 1064]/ T. KAJIWARA, 1987, [602]/ J. A. PACKER, 1988, [990]/ P. XU, 1991, [1391]/ K. MANSFIELD, 1991, [844]/ S. P. KALISZEWSKI, 1994-2005, [628, 629, 630]/ S. ECHTERHOFF, 1993-02, [337, 339]/ J. QUIGG AND I. RAEBURN, 1995-02, [1082, 349, 633, 1080], [345, 343, 346, 341]/ HUU HUNG BUI, 1997, [207, 206]/ I. RAEBURN AND D. P. WILLIAMS, 1998, [1094]/ N. P. LANDSMAN, 2000-2002, [763, 765, 768]/ A. AN HUEF, I. RAEBURN, D. P. WILLIAMS AND COAUTHORS, 2000-2007, [43, 44, 45, 42, 35, 36]/ P. ARA, 2001, [66]/ M. KUSUDA, 2001, [736]/ S. KALISZEWSKI, J. QUIGG, 2005, [625]/ and others.

*Normal operator-valued weights (resp., conditional expectations) of finite index between  $C^*$ -algebras / Correspondences of  $C^*$ -algebras / Regular  $C^*$ -valued weights:*

D. BURES, 1971, [210]/ A. CONNES, 1980, [263]/ M. V. PIMSNER, S. POPA, 1986, [1057]/ M. BAILLET, Y. DENIZEAU, J.-F. HAVET, 1988, [95]/ Y. WATATANI, 1990, [1360]/ M. FRANK, 1993, [416]/ M. FRANK, E. KIRCHBERG, 1998, [431]/ M. FRANK, 1998, [421]/ M. FRANK, E. KIRCHBERG, 1998, [431]/ F. FIDALEO, T. ISOLA, 1999, [398]/ E. ANDRUCHOW, G. CORACH, D. STOJANOFF, A. VARELA, 1999-2002, [55, 57, 56, 60]/ T. KAJIWARA, Y. WATATANI, 2000, [612]/ J. KUSTERMANS, 2000, [734]/ and others.

*$AW^*$ -algebras and monotone complete  $C^*$ -algebras:*

I. KAPLANSKY, 1953, [639]/ H. WIDOM, 1956, [1377]/ J. D. M. WRIGHT, 1969, [1388]/ C. SUNOUCHI, 1971, [1241]/ K. SAITÔ, 1971-..., [1143, 1144, 1145, 1146]/ H. TAKEMOTO, 1973, [1256]/ E. AZOFF, 1978, [90]/ O. TAKENOUCI, 1978, [1259]/ M. HAMANA, 1979-..., [493, 494, 495, 496, 497, 498]/ M. OZAWA, 1980-..., [980, 981, 982, 983]/ G. A. ELLIOTT, K. SAITÔ, J. D. M. WRIGHT, 1983, [367]/ G. K. PEDERSEN, 1984/86, [1042, 1043]/ N. AZARNIA, 1985, [89]/ M. FRANK, 1991/93, [416, 417]/ and others.

*Completely positive mappings between  $C^*$ -algebras:*

W. L. PASCHKE, 1973, [1013]/ I. RAEBURN, A. M. SINCLAIR, D. P. WILLIAMS, 1989, [1090]/ C. ANANTHARAMAN-DELAROCHE, 1990, [50]/ C. ANANTHARAMAN-DELAROCHE, J.-F. HAVET, 1990, [54]/ J. A. MINGO, 1990, [890]/ H. LIN, 1991, [786]/ J. TSUI, 1996/97, [1325, 1326]/ G. J. MURPHY, 1997, [939]/ R. GOHM, M. SKEIDE, 2005, [473]/ M. JOIȚA, 2005, [576]/ A. E. MARRERO, P. S. MUHLY, 2006, [859]/ and others.

*Cuntz-(Krieger-Nica-)Pimsner algebras:*

M. V. PIMSNER, 1997, [1056] / T. CECCHERINI, S. DOPLICHER, T. KAJIWARA, C. PINZARI, J. E. ROBERTS, Y. WATATANI, R. ZUCCANTE, 1997-98, [315, 606, 1060], [605, 244, 607] / P. S. MUHLY, B. SOLEL, 1996-2006, [1235, 927, 928, 929, 930, 931, 932, 934] / N. J. FOWLER, I. RAEBURN, 1999, [406]/ J. SCHWEIZER, 1999-2000, [1169, 1170, 1171, 1172] / N. P. BROWN, K. DYKEMA, D. SHLYAKHTENKO, 1998-2001, [1195, 1196, 331, 188] / T. K. CARLSEN, 2001, [239]/ V. DEACONU, A. KUMJIAN, P. S. MUHLY, 2001, [302]/ R. OKAYASU, 2000-2002, [967, 968] / I. HIRSHBERG, 2002-2005, [527, 529]/ K. J. DYKEMA, R. R. SMITH, 2003, [332]/ N. FOWLER, P. S. MUHLY, I. RAEBURN, 2003, [403]/ T. KAJIWARA, Y. WATATANI, 2003, [614]/ T. KATSURA, 2003-2004, [667, 668, 670, 671, 672, 673, 674]/ T. K. CARLSEN, 2004, [240]/ M. LACA, S. NESHVEYEV, 2004, [747]/ P. S. MUHLY AND M. TOMFORDE, 2004, [938]/ B. ABADIE, M. ACHIGAR, 2005, [8]/ E. GERMAIN,

2005, [469]/ H. HARNISCH, E. KIRCHBERG, 2005, [504]/ N. S. LARSEN, 2005, [769]/ E. G. KATSOU LIS, D. W. KRIBS, 2004-2006, [662, 664]/ T. MEIER CARLSEN, 2005, [242]/ E. VASSELLI, 2005, [1337]/ N. BROWNLOWE, I. RAEBURN, 2006, [192]/ A. E. MARRERO, P. S. MUHLY, 2006, [859]/ A. SKALSKI, J. ZACHARIAS, 2006, [1204]/ F. LLEDÓ, E. VASSELLI, 2007-2009, [798, 797]/ R. CONTI, E. VASSELLI, 2007, [277]/ K. R. DAVIDSON, E. G. KATSOU LIS, 2007, [297]/ V. DEACONU, 2007, [301]/ B. K. KWASNIEWSKI AND A. V. LEBEDEV, 2007, [746]/ P. S. MUHLY, D. PASK, M. TOMFORDE, 2008, [923]/ S. YAMASHITA, 2008, [1405]/ and others.

*(Higher-rank) Graph  $C^*$ -algebras:*

B. ASHTON, 1996, [85]/ A. KUMJIAN, 1998, [726]/ N. FOWLER, M. LACA, I. RAEBURN, 1999, [405]/ D. DRINEN et al., 1999-2005, [319, 320, 321]/ V. DEACONU, 2000, [300]/ R. HOFFMANN, 2001, [531]/ A. KUMJIAN, P. S. MUHLY, D. PASK, I. RAEBURN, M. TOMFORDE, AND COAUTHORS, 2001-2003, [302, 320, 1024, 1087, 1283, 728], [115, 1028, 306, 938]/ T. KATSURA, 2001-2004, [665, 666, 670, 671, 672, 674]/ J. A. JEONG, G. H. PARK, D. Y. SHIN, 2001 [561]/ M. TOMFORDE, 2002-2006, [1280, 1281, 1283, 1282, 1284, 1285]/ INHYEOP YI, 2002, [1411]/ T. KATSURA, 2003, [668]/ P. S. MUHLY, M. TOMFORDE, 2003, [937]/ E. KATSOU LIS, D. W. KRIBS, 2004-2005, [661, 662, 663]/ D. W. KRIBS, B. SOLEL, 2004, [717]/ J. TYLER, 2004, [1329]/ D. PASK, A. RENNIE, A. SIMS, 2005/2007, [1026, 1027]/ I. RAEBURN, A. SIMS, 2005, [1088, 1089]/ T. CRISP, D. GOW, 2004-2006, [280, 281]/ C. FARTHING, 2006, [394, 395]/ M. IONESCU, 2006, [544]/ A. KUMJIAN, D. PASK, A. SIMS, 2006, [729]/ J. QUIGG, 2006, [1081]/ T. YEEND, 2006, [1410]/ A. L. CAREY, J. PHILLIPS, A. RENNIE, 2007. [238]/ G. ABRAMS, M. TOMFORDE, 2008, [14]/ T. KATSURA, P. S. MUHLY, A. SIMS, M. TOMFORDE, 2008, [676, 677]/ N. BROWNLOWE, 2009, [191]/ S. EILERS, M. TOMFORDE, 2009, [355]/ and others.

*Mathematical and theoretical physics, quantum probability:*

M. BANAI, 1987, [110] / D. APPLEBAUM, 1988, [65]/ P. XU, 1991/92, [1391, 1392]/ N. P. LANDSMAN, 1993-2000, [758, 759, 761, 762, 760, 764, 763, 765, 767, 768]/ A. CONNES, 1994, [269]/ V. M. MANUILOV, 1994, [847]/ L. ACCARDI, YUN-GANG LU, I. V. VOLOVICH, 1992-97, [17, 18, 19, 20], [21, 22]/ YUN-GANG LU, 1992-95, [806, 807, 808, 809]/ P. J. MCCANN AND A. L. CAREY, 1996, [872]/ H. BAUMGÄRTEL AND F. LLEDÓ, 1997-2004, [118, 119, 120, 121, 122]/ G. LANDI, 1997, [756]/ M. SKEIDE and others, 1998-2005, [1210, 23, 1211, 24, 25, 136, 1214, 1213, 1212, 1215, 784, 1218, 1220, 1224, 1227, 785, 1225, 1230, 1228, 1234]/ H. BURSZTYN, S. WALDMANN, 1999-2005, [220, 219, 221, 1354, 1353]/ M. J. GRUBER, 1998-2001, [483, 484, 485]/ J. M. GRACIA-BONDÍA, J. C. VÁRILLY, H. FIGUEROA, 2001, [478]/ V. P. BELAVKIN, 2001, [128]/ A. SCHWARZ, 2001, [1166]/ M. FRANK, 2002, [425]/ CH. WAHL, 2003/2006, [1347, 1352]/ P. K. JAKOBSON, V. V. LYCHAGIN, 2004, [558]/ V. GAYRAL, J.-H. JUREIT, T. KRAJEWSKI, R. WULKENHAAR, 2006, [463]/ R. A. D. MARTINS, 2006, [860]/ BIN MENG, MAOZHENG GUO, XIAOHONG CAO, 2004-2007, [489, 878, 880, 879, 876]/ P. BERTOZZINI, R. CONTI, W. LEWKEERATIYUTKUL, 2008, [133, 132]/ M. DAMAK, V. GEORGESCU, 2008, [292] / and others.

*Unbounded operators, quantum groups and other applications:*

M. HILSUM, 1989, [521]/ S. BAAJ, P. JULG, 1983, [91]/ S. BAAJ, G. SKANDALIS, 1989, [92]/ S. L. WORONOWICZ, 1991, [1386] S. L. WORONOWICZ, K. NAPIÓRKOWSKI, 1992, [1387]/ E. C. LANCE, 1994, [753]/ J. KUSTERMANS, 1997, [735, 733]/ ARUPKUMAR PAL, 1995/1998, [997, 998, 999]/ A. POPOVICI AND D. POPOVICI, 2000, [1070]/ D. KUCEROVSKY, 2002, [721]/ C. WEBSTER, 2004, [1366]/ ST. DAMAVILLE, 2004/2007, [293, 294]/ M. FRANK, K. SHARIFI, 2007/2008, [445, 446, 1182]/ Y. SAVCHUK, K. SCHMÜDGEN, 2008, [1152]/ J. BHOWMICK, 2009, [137, 138, 139]/ K. SHARIFI, 2009-2010, [1179, 1177, 1180, 1176, 1178, 1181]/ and others.

*Vector bundles, (F)Hilbert bundles  $\leftrightarrow$  projective  $C^*$ -modules, Hilbert  $C^*$ -modules:*

J.-P. SERRE, 1957, [1175]/ R. G. SWAN, 1962, [1242, 1243, 1244]/ J. DIXMIER, A. DOUADY, 1963, [312] A. O. TAKAHASHI, 1971, [1254, 1255, 1253]/ K. H. HOFMANN, 1972, [532]/ M. J. DUPRÉ, 1972, [325, 326, 327]/ J. VARELA, 1974, [1333], J. FELL, 1977, [396]/ M. A. RIEFFEL, 1983/85/88, [1114, 1115, 1119]/ A. S. MISHCHENKO, 1984, [896]/ A. J. L. SHEU, 1987, [1193]/ R. G. SWAN, 1987, [1246]/ J. M. S. FELL, R. S. DORAN, 1988, [397]/ G. LANDI, 1997, [756]/ N. C. PHILLIPS, N. WEAVER, 1998, [1051]/ I. RAEBURN, D. P. WILLIAMS, 1998, [1094]/ N. WEAVER, 2001,

[1365]/ K. KAWAMURA, 2003, [679]/ LUN-CHUAN ZHANG, 2004, [1428]/ CHI-KEUNG NG, 2006, [957]/ P. F. BAUM, P. M. HAJAC, R. MATTHES, W. SZYMAŃSKI, 2007, [116]/ G. A. ELLIOTT, K. KAWAMURA, 2008, [363]/ and others.

*Rotation  $C^*$ -algebras, noncommutative (super-)tori and related structures:*

M. A. RIEFFEL, 1981-83, [1110, 1114]/ M. DE BRABANDER, 1984, [298]/ B. BRENNEN, J. CUNTZ, G. A. ELLIOTT, R. NEST, 1987, [178]/ J. A. PACKER, 1987/88, [988, 990]/ M. A. RIEFFEL, 1988/90, [1119, 1118, 1120], S. G. WALTERS, 1994/95/2003, [1357, 1358, 1355]/ G. A. ELLIOTT, QING LIN, 1995, [366, 794]/ F. P. BOCA, 1996, [173]/ M. A. RIEFFEL, A. SCHWARZ, 1999, [1127]/ A. ASTASHKEVITCH, A. SCHWARZ, 2001, [86]/ G. A. ELLIOTT, HANFENG LI, 2003, [365]/ HANFENG LI, 2003-2008, [782, 365, 364]/ F. LUEF, 2006-2009, [822, 482, 824]/ R. NEST, R. D. SVEGSTROP, 2007, [950]/ N. NAWATA, 2008, [943]/ H. AOKI, J. NISHIMURA, Y. SUSAKI, 2009, [64]/ EE CHANG-YOUNG, HOIL KIM, HIROAKI NAKAJIMA, 2009, [245]/ and others.

*Other non-commutative geometry:*

A. CONNES, 1980-..., [262, 265, 266, 267, 268]/ M. A. RIEFFEL, 1988, [1118]/ A. CONNES, J. LOTT, 1992, [271, 802]/ J. CUNTZ, 1993, [285]/ M. A. RIEFFEL, A. SCHWARZ, 1999, [1127]/ A. RENNIE, J. C. VÁRILLY, 2006, [1103]/ and others.

*Applications in algebraic and geometric topology:*

G. G. KASPAROV, 1975-1990, [648, 651, 653]/ A. S. MISHCHENKO, 1978-79, [892, 893]/ A. S. MISHCHENKO, A. T. FOMENKO, 1979, [898]/ R. A. BIKTASHEV, A. S. MISHCHENKO, 1980, [142]/ V. A. KASIMOV, 1982, [645]/ M. A. RIEFFEL, 1983, [1113]/ J. ROSENBERG, 1983-90, [1133, 1134, 1135]/ M. HILSUM, G. SKANDALIS, 1983/1992, [524, 525]/ J. KAMINKER, J. G. MILLER, 1985, [635]/ F. SHARIPOV, 1985, [1185]/ E. V. TROITSKY, 1985-..., [1298, 1299, 1300, 1305, 1306]/ C. C. MOORE, C. SCHOCHET, 1988, [906]/ G. G. KASPAROV, G. SKANDALIS, 1990/91, [656, 657]/ G. G. KASPAROV, 1995, [655]/ G. N. KHMISHIASHVILI, 1996, [682]/ E. V. TROITSKY/YU. P. SOLOVYOV, 1996, [1238]/ G. LUKE, A. S. MISHCHENKO, 1998, [827]/ A. MALLIOS, 1998, [843]/ J. MILLER, 1998-99, [883, 884]/ A. A. PAVLOV, 1998-2000, [1032, 1035]/ E. LEICHTNAM, P. PIAZZA, 2004, [778]/ YU. A. KORDYUKOV, 2005, [712]/ V. M. MANUILOV, K. THOMSEN, 2006, [855]/ S. T. MELO, M. I. MERKLEN, 2006, [873]/ M. A. RIEFFEL, 2006, [1125]/ CH. WAHL, 2006, [1348, 1349, 1351, 1352]/ V. E. NAZAIKINSKII, A. YU. SAVIN, B. YU. STERNIN, 2008, [945]/ and others.

*$L^2$ -methods in algebraic and geometric topology:*

V. MATHAI, A. CAREY, AND COAUTHORS, 1990-2000, [867, 236, 233, 234, 866, 865, 231, 235]/ W. LÜCK, M. ROTHENBERG, 1991-2000, [816], [811, 812, 813, 814, 817, 815]/ M. FARBER, 1995-2001, [386, 387, 234, 389, 388, 391, 235, 390, 392]/ J. LOTT, 1996-2000, [802, 801]/ D. BURGHELEA, L. FRIEDLANDER, T. KAPPELER, P. McDONALD, 1996-2000, [215, 211, 212]/ TH. SCHICK, 1996-2000, [1156, 817, 1157, 1159, 1160]/ A. CONNES, D. SHLYAKHTENKO, 2003, [273]/ CH. WAHL, 2006, [1349]/ CHR. WEGNER, 2008, [1369]/ and others.

*Hilbert modules over pro- $C^*$ -algebras / locally  $C^*$ -algebras:*

N. C. PHILLIPS, 1989, [1050]/ J. WEIDNER, 1989, [1371, 1372]/ C. SCHOCHET, 1994, [1163]/ YU. I. JURAYEV, F. SARIPOV, 2000, [597, 1189]/ M. JOIȚA, 2001-2004, [566, 567, 568, 569, 570, 572, 573, 571, 576, 577, 575, 574, 578, 579, 580, 581, 582, 590, 589, 584, 585, 588, 586, 587, 583, 592, 591, 593]/ A. KHOSRAVI, M. S. ASGARI, M. AZHINI, 2004/2006, [687, 688, 689]/ and others.

*Operator spaces and operator algebras, and Hilbert  $C^*$ -modules:*

D. P. BLECHER, 1995-2005, [152, 154, 158]/ D. P. BLECHER, P. S. MUHLY, V. I. PAULSEN, 2000, [167]/ E. G. EFFROS, ZHONG-JIN RUAN, 2000, [354]/ D. P. BLECHER, V. I. PAULSEN, 2001, [289]/ M. NEAL, B. RUSSO, 2003, [947]/ D. P. BLECHER, CH. LE MERDY, 2004, [165]/ D. P. BLECHER, D. M. HAY, M. NEAL, 2005, [161]/ B. MAGAJNA, 2005, [838]/ V. I. PAULSEN, 2005, [1031]/ and others.

*Ternary rings of operators - a different setting for Hilbert  $C^*$ -modules*

E. M. LANDESMANN, B. RUSSO, 1983, [755]/ H. H. ZETTL, 1983, [1420]/ R. EXEL, 1997, [373]/ E. G. EFFROS, NARUTAKA OZAWA, ZHONG-JIN RUAN, 2001, [353]/ PING WONG NG, NARUTAKA OZAWA, 2002, [958]/ M. KAUR, ZHONG-JIN RUAN, 2002, [678]/ A. KATAVOLOS, I. G. TODOROV, 2003, [658]/ M. NEAL, B. RUSSO, 2003, [947]/ D. P. BLECHER, 2004, [159]/ Z.-J. RUAN, 2004, [1141]/ I. G. TODOROV, 2004, [1279]/ J. ROYDOR, 2005, [1138]/ MINGCHU GAO, 2006, [459]/ M. NEAL, É. RICARD, B. RUSSO, 2006, [946]/ D. P. BLECHER, M. NEAL, 2007, [168]/ ZHE DONG, ZHONG-JIN RUAN, 2007, [314]/ R. EXEL, 2007, [378]/ G. K. ELEFOTHERAKIS, V. I. PAULSEN, 2008, [356, 359, 358]/ and others.

*Prediction theory of multivariate stochastic processes / Quantum stochastics:*

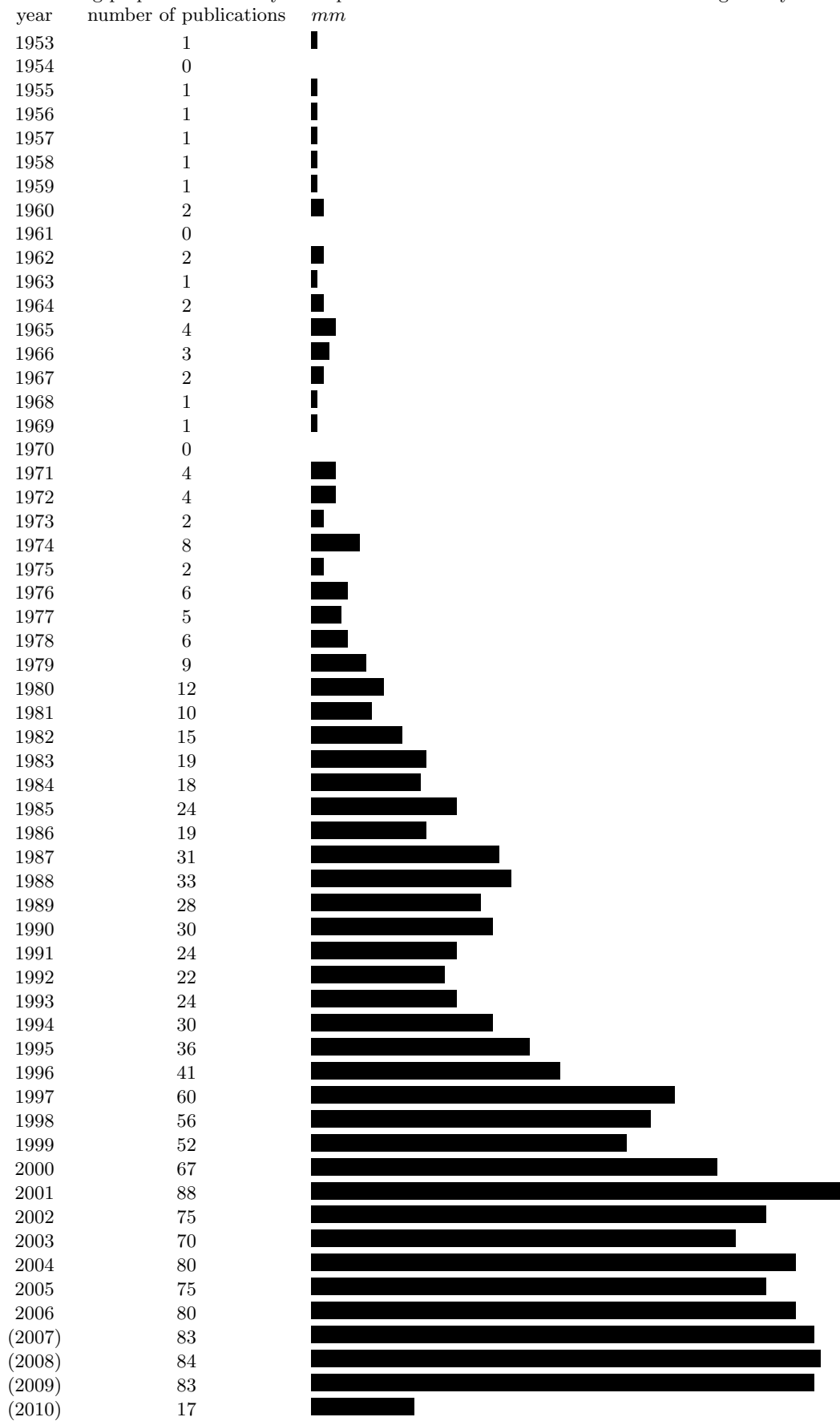
N. WIENER, P. R. MASANI, 1957-66, [1378, 1379, 862], [861, 863, 864]/ R. M. LOYNES, 1965, [804]/ H. SALEHI, 1965-67, [1148, 1149, 1150]/ P. P. SAWOROTNOW, 1983, [1154]/ H. FUGE, 1995, [456] / U. GERECKE, J. LORENZ, 1995, [465]/ A. KOKSCHAL, 1995, [709]/ D. POPOVICI, 1996-98, [1072, 1073, 1075]/ O. ZUCHANKE, 1997, [1456]/ Y. KAKIHARA, 1997, [621]/ A. LASAROW, 2000, [773]/ M. FRANK, L. KLOTZ, 2002, [432]/ L. KLOTZ, A. LASAROW, 2003, [703, 702]/ K. B. SINHA, D. GOSWAMI, 2007, [1202]/ and others.

*Wavelet theory, (modular) frames and Hilbert  $C^*$ -modules:*

G. ZIMMERMANN, J. BENEDETTO, 1994/1997, [1455, 130]/ M. A. RIEFFEL, 1997-now, [1124, 1125]/ M. FRANK, D. R. LARSON, 1998-now, [434, 433, 435]/ P. WOOD, 2001-now, [1383, 1385, 1384]/ M. A. COCO, M. C. LAMMERS, 2001, [257]/ HUAIXIN CAO, JIANWEI ZHAO, 2002, [230]/ P. G. CASAZZA, M. C. LAMMERS, 2003, [243]/ J. A. PACKER, M. A. RIEFFEL, 2001-2007, [995, 996, 991, 992]/ A. KHOSRAVI, N. A. MOSLEMIPOUR, 2003-2004, [696, 694, 695]/ F. LUEF, 2003-2009, [818, 819, 820, 821, 823, 826, 482]/ I. RAEBURN, S. J. THOMPSON, 2003, [1091]/ LUN CHUAN ZHANG, 2003, [1425]/ (DO NGOC DIEP, 2004, [311])/ MAOZHENG GUO, BIN MENG, XIAOHONG CAO, 2004, [878, 489, 879]/ V. KAFTAL, D. R. LARSON, 2004, [599]/ D. P. LARSON, 2005, [772]/ BIN MENG, 2005, [875]/ XI-YAN YAO, 2005-2006, [1408, 1409]/ L. ARAMBAŠIĆ, 2006-2007, [71, 72]/ WU JING, DEGUANG HAN, RAM N. MOHAPATRA, 2006, [565, 564]/ A. KHOSRAVI, F. SATTARI, 2006, [697]/ M. A. RIEFFEL, 2006, [1125]/ M. JOIȚA, 2007-2009, [582, 590, 592] / N. S. LARSEN AND I. RAEBURN, 2007, [771]/ K. RØYSLAND, 2007, [1139]/ DEGUANG HAN, WU JING, D. R. LARSON AND RAM N. MOHAPATRA, 2008-2009, [500, 501]/ V. KAFTAL, D. R. LARSON, SHUANG ZHANG, 2008-2009, [601, 600]/ HANFENG LI, 2008, [783]/ MRS. ARIYANI, 2008, [78]/ HUAN KUN FU, BIN MENG, FANG FANG DONG, 2009, [455]/ DEGUANG HAN, 2009, [499]/ F. LUEF, 2009, [824]/ K. R. OSLAND, 2009, [1140]/ XIANG-CHUN XIAO, XIAO-MING ZENG, 2010, [1390]/ and others.

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The graphic below lists the number of publications published in a year. The number for 2006-2008 includes some circulating preprints the final year of publication of which has to be defined through the years.



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