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

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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 it's 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, [1012], H. Widom, 1956, [1994] : AW*-algebras, inner product AW*-modules (Kaplansky-Hilbert modules).

R. M. Loynes, 1965, [1247]: VH-spaces, LVH-spaces.

R. G. Swan, 1962, [1828], J. Dixmier and A. Douady, 1963, [506]: vector bundles, projective modules.
A. O. Takahashi, 1971, [1836, 1837, 1835], K. H. Hofmann, 1972, [835], M. J. Dupré, 1972, [532, 533, 534], (H. Takemoto, 1973-76, [1838, 1839, 1840],) J. Varela, 1974, [1930]: 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, [1995, 1996, 1321, 1323], H. H. Goldstine and L. P. Horwitz, 1966, [745], P. P. Saworotnow, 1968, [1706]: 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, [338]: special W*-valued inner products on von Neumann algebras.

W. L. Paschke, 1972/73, [1526, 1527]: one **trailblazing paper** in Hilbert C*-module theory.

M. A. Rieffel, 1972/74, [1644, 1645, 1646]: the other **trailblazing papers**, about Hilbert C*-modules and (strong) Morita equivalence of C*-algebras.

Y. Kakihara, 1979-1984, [976, 977, 978, 979, 980] [983]: Hilbert B(H)-modules with trace class valued inner product.

J. Pincket, 1986, [1581]: 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, [700] : Hilbert modules over infinite-dimensional Grassman-Banach algebras.)

(R. G. Douglas, V. I. Paulsen, 1989, [523] ([1420]): "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, [1572]: Hilbert modules over pro-C*-algebras (i.e., over inverse limits of C*-algebras))

G. Zeller-Meier, 1991, [2056, 2057]: 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, [254, 256, 270, 267, 269]: 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, [350, 349, 351, 352, 1963, 1964]: 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, [939, 1760] and M. Joiţa, 2001-2008, [895, 896, 897, 898, 899, 902, 900, 904, 905, 903, 906, 910]: Hilbert modules over locally C*-algebras.

J. Paseka, 1999-2004, [1532, 1533, 1534, 1535, 1536, 1537]: Hilbert modules over involutive quantales, Rieffel induction, Morita equivalence of involutive quantales.

P. Mitchener, 2001, [1375]: 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, [1762, 1763, 938]: 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, [602]: 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, 2009, [1720]: bimodules over (unbounded) complex unital $*$-algebras with algebra-valued sesquilinear forms, towards noncommutative real algebraic geometry.

V. Lafforgue,W. Paravicini, 2004-2009, [1180, 1515, 1516]. New notion of Morita equivalence of Banach algebras, applications to KK-theory.

. D. P. Blecher, U. Kashyap, 2011/2016, [267, 268, 262]. W*-modules as an operator module analogue of selfdual Hilbert W*-modules.

S. Omran, A. El-Sayed Ahmedi, 2012, [1689]. Quaternion Hilbert C*-modules.

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

I. Kaplansky [1012]/ H. Widom [1994]/ W. L. Paschke [1527, 1529]/ M. A. Rieffel [1645, 1646]/ G. G. Kasparov [1030]/ M. J. Dupré, P. A. Fillmore [535]/ M. I. Gekhtman [722]/ E. V. Troĭtsky [1895]/ J. Cuntz, N. Higson [453]/ O. G. Filippov [631]/ J.-F. Havet [794]/ H. Lin [1231, 1233, 1234]/ G. Zeller-Meier [2056, 2057]/ S. Zhang [2083]/ M. Hamana [778]/ E. C. Lance [1185]/ L. G. Brown, J. A. Mingo and Nien-Tsu Shen [305]/ V. M. Manuilov [1299, 1301, 1304]/ J. Kustermans [1156]/ M. Frank [655, 659, 664]/ M. Frank, D. R. Larson [676, 677]/ A. Pal, [1511]/ D. Popovici, 1996-2000, [1598, 1600, 1601, 1603, 1602, 1597]/ M. Frank, D. R. Larson, 1998-2000, [676, 675, 677]/ V. M. Manuilov, E. V. Troitsky, 1998, [1307, 1909, 1311]/ B. Solel, 2001, [1818]/ M. Kaur, Zhong-Jin Ruan, 2002, [1686, 1063]/ K. Kawamura, [1064]/ L. Arambašić, 2004, [113]/ . D. P. Blecher, U. Kashyap, 2011/2016, [267, 268, 262]/ C. A. Bearden, 2016-2017, [206, 207]/ A. Westerbaan, B. Westerbaan, 2016, [1992]/ and many more.

Ph.D. and Habilitation thesises using Hilbert C-modules essentially*:

A. O. Takahashi, 1971, [1835]/ M. J. Dupré, 1972, [532]/ W. L. Paschke, 1972, [1526]/ W. Beer, 1981, [213]/ J. A. Mingo, 1982, [1361]/ N.-T. Shen, 1982, [1761]/ V. A. Trofimov, 1987, [1889]/ J. Weidner, 1987, [1986]/ Y. Yang, 1987, [2040]/ M. Lesch, 1988, [1215]/ S. Zhang, 1988, [2080]/ M. Frank, 1988, [651]/ S. Echterhoff, 1990, [546]/ B. Abadie, 1992, [1]/ Huu Hung Bui, 1992, [328]/ E. Blanchard, 1993, [244]/ S. P. Kaliszewski, 1994, [998]/ D. Kucerovsky, 1994, [1132]/ G. Zimmermann, 1994, [2099]/ J. Clarke, 1995, [412]/ Arupkumar Pal, 1995, [1510]/ B. Ashton, 1996, [155]/ Th. Schick, 1996, [1711]/ J. Schweizer, 1996, [1725]/ D. R. Buske, 1997, [354]/ M. Frank, 1997, [661]/ M. J. Gruber, 1998, [761]/ H. Reich, 1998, [1636]/ D. Drinen, 1999, [525]/ V. Lafforgue, 1999, [1178]/ B. Bucicovschi, 2000, [326]/ A. Lasarow, 2000, [1204]/ Z. Mosavi, 2000, [1388]/ H. Bursztyn, 2001, [346]/ D. Dumitraşcu, 2001, [529]/ J. Hellmich, 2001, [800]/ D. Sherman, 2001, [1762]/ M. Skeide, 2001, [1790]/ S. Vassout, 2001, [1939]/ F. M. Brückler, 2002, [322]/ D. Ilišević, 2002, [852]/ M. I. Merklen Olivera, 2002, [1477]/ M. Tomforde, 2002, [1873]/ R. Vergnioux, 2002, [1944]/ Ch. Wahl, 2002, [1956, 1957]/ M. Amyari, 2003, [56]/ I. Hirshberg, 2003, [827]/ M. Kaneda, 2003, [1010]/ R. Rajic, 2003, [1623]/ P. J. Wood, 2003, [2003]/ T. M. Carlsen, 2004, [380]/ A. Döring, 23004, [521]/ R. Hoffmann, 2004, [834]/ J. Raven, 2004, [1635]/ T. Crisp, 2004, [445]/ L. Arambašić, 2005, [114]/ B. Kolarec, 2005, [1111]/ F. Lledo, 2005, [1241]/ F. Luef, 2005, [1271]/ Th. Timmermann, 2005, [1855]/ C. Farthing, 2006, [624]/ St. Jansen, 2006, [882]/ Wu Jing, 2006, [893]/ K. T. Coward, 2007, [443]/ W. Paravicini, 2007, [1515]/ A. Becken, 2008, [208]/ K. Sharifi, 2008, [1753]. Mrs. Ariyani, 2008, [140]/ A. Ciuperca, 2008, [402]/ J. Bhowmick, 2009, [233]/ P. Clare, 2009, [405]/ S. Dey, 2009, [500]/ M. Mahoney, 2009, [1291]/ B. Mesland, 2009, [1350]/ H. Schlieter, 2009, [1718]/ O. M. Shalit, 2009, [1738]/ M. Daws, 2010, [471]/ I. Gogić, 2010, [741]/ U. Pennig, 2010, [1562]/ D. Bohle, 2011, [279]/ N. Patani, 2011, [1543]/ A. Tikuisis, 2011, [1854]/ St. Wagner, 2011, [1955]/ A. A. Zamani, 2011, [2053]/ S.-K. Zschauer, 2011, [2100]/ C. M. Cerny, 2012, [390]/ A. K. Green, 2012, [757]/ S. J. McCann, 2012, [1337]/ J. J. Venselaar, 2012, [1941]/ B. J. Ćaćić, 2013, [368]/ B. Maloney, 2013, [1296]/ Hui Li, 2014, [1223]/ B. A. Purkis, 2014, [1606]/ Amandip S. Sangha, 2014, [1702]/ F. Arici, 2015, [135]/ P. M. Gipson, 2015, [736]/ R. M. Hadi, 2015, [771]/ M. Hawkins, 2015, [796]/ M. Kreisel, 2015, [1123]/ Hui Li, 2015, [1224]/ Jian Liang, 2015, [1227]/ B. Vuješević, 2015, [1951]/ I. Forsyth, 2016, [643]/ R. Gebhardt, 2016, [720]/ L. T. Huang, 2016, [851]/ A. Morgan, 2016, [1386].

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

Books: E. C. Lance, 1993, [1185]/ I. Raeburn, D. P. Williams, 1998, [1622]/ V. M. Manuilov, E. V. Troitsky, 1998/2000, [1311, 1307, 1909]/ J. M. Gracia-Bondía, J. C. Várilly, H. Figueroa, 2001, [754]/ M. Skeide, 2001, [1789]/ (Xiaoman Chen, Kunyu Guo, 2003, [397])/ V. M. Manuilov, E. V. Troĭtsky, 2005, [1312]/ M. Joiţa, 2006, [907].

Lecture Notes: M. Skeide, 2000, [1787]/ J. C. Várilly, 2006, [1931]/ Yu. A. Kordyukov, 2008, [1118].

Chapters: A. S. Mishchenko, 1984, [1370] / B. Blackadar, 1986, [241] / V. I. Istrăţescu, 1987, [870] / N. C. Phillips, 1989, [1571] / K. K. Jensen, K. Thomsen, 1991, [885] ([1850]) / N. E. Wegge-Olsen, 1993, [1984] ([1983]) / H. Schröder, 1993, [1722]/ A. Connes, 1994, [425]/ P. A. Fillmore, 1996, [634]/ E. V. Troitsky, Yu. P. Solovyov, 1996/2001, [1821]/ G. Landi, 1997, [1187]/ N. P. Landsman, 1998, [1193, 1191]/ C. Constantinescu, 2001, [431]/ N. Weaver, 2001, [1981]/ W. Lück, 2002, [1259]/ P. Ara, M. Mathieu, 2003, [109]/ D. P. Blecher, Ch. Le Merdy, 2004, [270]/ I. Raeburn, 2005, [1615]/ B. Blackadar, 2006, [242]/ K. B. Sinha, D. Goswami, 2007, [1775]/ D. P. Williams, 2007, [1997]/ V. E. Nazaikinskii, A. Yu. Savin, B. Yu. Sternin, 2008, [1446]/ Th. Timmermann, 2008, [1860] / M. Khalkhali, 2009/13, [1068, 1069]/ R. Pluta, 2013, [1586]/ W. D. van Suijlekom, 2015, [1928]/ M. Skeide, 2016, [1814].

Conference: *Hilbert C*-modules and groupoid C*-algebras*, Kyoto, Japan, Jan. 25-27, 1999, [414].

§3 Guide (part II)

The aim of this guide is to claim some larger 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, [1032, 1034, 1033]/ M. V. Pimsner, D. Voiculescu, 1980, [1580]/ G. Skandalis, 1984/88/91, [1780, 1781, 1782]/ W. L. Paschke, 1985, [1531]/ M. V. Pimsner, 1985, [1577]/ E. V. Troĭtsky, 1985, [1890]/ B. Blackadar, 1986, [241]/ J. Cuntz, 1986, [450]/ N. C. Phillips, 1987/89, [1568, 1571]/ M. A. Rieffel, 1987, [1655]/ J. A. Packer, 1988, [1503]/ J. Rosenberg, 1990, [1677]/ K. K. Jensen, K. Thomsen, 1991, [885]/ S. Zhang, 1991/92/93, [2084, 2085, 2092, 2095]/ N. E. Wegge-Olsen, 1993, [1984]/ V. Lafforgue, 1999/2002, [1178, 1179]/ R. Vergnioux, 2002/2004, [1944, 1945]/ D. Dumitraşcu, 2002, [529, 530]/ A. S. Toms, 2006, [1879]/ J. Rosenberg, 2009, [1678]/ P. F. Baum, R. J. Sánchez-García, 2011, [199]/ H. Oyono-Oyono, Guoliang Yu, 2011, [1490]/ D. Bohle, W. Werner, 2010-2015, [279, 280, 281, 282]/ A. Gorokhovsky, J. Lott, 2015, [751]/ and others.

Cuntz semigroups of C-algebras and applications:*

J. Cuntz, 1978, [449]/ A. S. Toms, 2005-2011, [1880, 1881, 1882, 1883]/ K. T. Coward, 2007, [443]/ A. Ciuperca, N. P. Brown, G. A. Elliott, C. Ivanescu, K. Kawamura, F. Perera, L. Robert, A. Santiago, A. S. Toms, 2006-2010, [309, 311, 404, 443, 444, 586, 403, 1668, 1669]/ G. A. Elliott, A. S. Toms, 2008, [591]/ N. P. Brown, A. Ciuperca, 2009, [307]/ Huaxin Lin, 2010, [1238]/ P. Ara, F. Perera, A. Toms, 2011, [111]/ E. Ortega, M. Rørdam, H. Thiel, 2011, [1480]/ A. Tikuisis, 2011, [1853, 1854]/ B. Blackadar, L. Robert, A. P. Tikuisis, A. S. Toms, W. Winter, 2012, [243]/ and others.

Strong Morita equivalence of C-algebras and Hilbert C*-modules, and its application to group representation theory and crossed product C*-algebras:*

M. A. Rieffel, 1974, [1645, 1646]/ L. G. Brown, P. Green, M. A. Rieffel, 1977, [304]/ P. Green, 1978, [755]/ W. Beer, 1981/82, [213, 214]/ H. H. Zettl, 1982, [2060, 2059]/ F. Combes, H. H. Zettl, 1983, [417]/ F. Combes, 1984, [416]/ I. Putnam, 1985, [1607]/ R. J. Plymen, 1986/90, [1587, 1589]/ T. Kajiwara, 1987, [954]/ J. A. Packer, 1988, [1503]/ P. Xu, 1991, [2018]/ K. Mansfield, 1991, [1298]/ S. P. Kaliszewski, 1994-2005, [998, 999, 1000]/ S. Echterhoff, 1993-02, [549, 551]/ J. Quigg and I. Raeburn, 1995-06, [1611, 562, 1004, 554], [558, 556, 559, 554]/ Huu Hung Bui, 1997, [334, 333]/ I. Raeburn and D. P. Williams, 1998, [1622]/ N. P. Landsman, 2000-2002, [1194, 1196, 1199]/ A. an Huef, I. Raeburn, D. P. Williams and coauthors, 2000-2007, [78, 79, 76, 80, 65, 66, 82]/ P. Ara, 2001, [107]/ M. Kusuda, 2001, [1159]/ S. Kaliszewski, J. Quigg, 2005, [993]/ M. Skeide, 2009, [1808]/ St. Waldmann, 2011, [1965]/ Chi-Keung Ng, Ngai-Ching Wong, 2011, [1461]/ M. Joiţţa, M. S. Moslehian, 2012, [931]/ G. K. Eleftherakis, E. T. A. Kakariadis, 2014-2017, [577, 578, 579]/ 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, [338]/ A. Connes, 1980, [419]/ M. V. Pimsner, S. Popa, 1986, [1579]/ M. Baillet, Y. Denizeau, J.-F. Havet, 1988, [173]/ Y. Watatani, 1990, [1976]/ M. Frank, 1993, [658]/ M. Frank, E. Kirchberg, 1998, [673]/ M. Frank, 1998, [663]/ M. Frank, E. Kirchberg, 1998, [673]/ F. Fidaleo, T. Isola, 1999, [630]/ E. Andruchow, G. Corach, D. Stojanoff, A. Varela, 1999-2002, [94, 96, 95, 99]/ T. Kajiwara, Y. Watatani, 2000, [964]/ J. Kustermans, 2000, [1157]/ and others.

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

I. Kaplansky, 1953, [1012]/ H. Widom, 1956, [1994]/ J. D. M. Wright, 1969, [2006]/ C. Sunouchi, 1971, [1826]/ K. Saitô, 1971-..., [1692, 1693, 1694, 1695]/ H. Takemoto, 1973, [1838]/ E. Azoff,

1978, [166]/ O. Takenouchi, 1978, [1841]/ M. Hamana, 1979-..., [773, 774, 775, 776, 777, 778]/ M. Ozawa, 1980-..., [1493, 1494, 1495, 1496]/ G. A. Elliott, K. Saitô, J. D. M. Wright, 1983, [590]/ G. K. Pedersen, 1984/86, [1558, 1559]/ N. Azarnia, 1985, [164]/ M. Frank, 1991/93, [658, 659]/ and others.

Completely positive mappings between C-algebras and Hilbert C*-modules:*

W. L. Paschke, 1973, [1527]/ I. Raeburn, A. M. Sinclair, D. P. Williams, 1989, [1618]/ C. Anantharaman-Delaroche, 1990, [86]/ C. Anantharaman-Delaroche, J.-F. Havet, 1990, [90]/ J. A. Mingo, 1990, [1364]/ H. Lin, 1991, [1231]/ J. Tsui, 1996/97, [1921, 1922]/ G. J. Murphy, 1997, [1437]/ R. Gohm, M. Skeide, 2005, [743]/ M. Joiţa, 2005, [904]/ A. E. Marrero, P. S. Muhly, 2006, [1317]/ M. Skeide, 2010-2011, [1809, 1810]/ M. Joiţa, 2012, [925]/ M. A. Pliev, I. D. Tsopanov, 2014, [1585]/ M. S. Moslehian, A. Kusraev, M. Pliev, 2017, [1403]/ and others.

Cuntz-(Krieger-Nica-)Pimsner algebras:

M. V. Pimsner, 1997, [1578] / T. Ceccherini, S. Doplicher, T. Kajiwara, C. Pinzari, J. E. Roberts, Y. Watatani, R. Zuccante, 1997-98, [517, 958, 1582], [957, 389, 959] / P. S. Muhly, B. Solel, 1996-2006, [1817, 1421, 1422, 1423, 1424, 1425, 1426, 1428] / N. J. Fowler, I. Raeburn, 1999, [648]/ J. Schweizer, 1999-2000, [1727, 1728, 1729, 1730] / N. P. Brown, K. Dykema, D. Shlyakhtenko, 1998-2001, [1766, 1767, 539, 308] / T. K. Carlsen, 2001, [379]/ V. Deaconu, A. Kumjian, P. S. Muhly, 2001, [485]/ R. Okayasu, 2000-2002, [1475, 1476] / I. Hirshberg, 2002-2005, [828, 830]/ N. Fowler, P. S. Muhly, I. Raeburn, 2003, [645]/ T. Katsura, 2003-2008, [1051, 1052, 1053, 1054, 1055, 1059]/ T. K. Carlsen, 2004, [380]/ M. Laca, S. Neshveyev, 2004, [1175]/ P. S. Muhly and M. Tomforde, 2004, [1435]/x

K. J. Dykema, R. R. Smith, 2005, [540]/ E. Germain, 2005, [727]/ H. Harnisch, E. Kirchberg, 2005, [789]/ N. S. Larsen, 2005, [1200]/ E. G. Katsoulis, D. W. Kribs, 2004-2006, [1049, 1048]/ T. Meier Carlsen, 2005, [385]/ E. Vasselli, 2005, [1934]/ N. Brownlowe, I. Raeburn, 2006, [315]/ T. Kajiwara, Y. Watatani, 2006, [966]/ A. E. Marrero, P. S. Muhly, 2006, [1317]/ F. Lledó, E. Vasselli, 2007-2009, [1242, 1243]/ V. Deaconu, 2007, [481]/ B. K. Kwasniewski and A. V. Lebedev, 2007-2013, [1173, 1169]/ P. S. Muhly, D. Pask, M. Tomforde, 2008, [1417]/ S. Yamashita, 2009, [2036]/ B. Abadie, M. Achigar, 2009, [8]/ K. R. Davidson, E. G. Katsoulis, 2009, [470]/ R. Conti, E. Vasselli, 2010, [438]/ A. Skalski, J. Zacharias, 2010, [1779]/ D. Robertson, 2011, [1672]/ C. M. Cerny, 2012, [390]/ E. T. A. Kakariadis, E. G. Katsoulis, 2012-2014, [972, 974, 973, 970]/ T. Kajiwara, Y. Watatani, 2013, [967]/ Hui Li, 2014, [1223]/ R. Exel, E. Pardo, 2014, [604]/ V. Deaconu, 2016, [484]/ S. Kaliszewski, N. S. Larsen, J. Quigg, 2016, [984]/ and others.

(Higher-rank) Graph C-algebras, Quiver Algebras:*

B. Ashton, 1996, [155]/ A. Kumjian, 1998, [1143]/ N. Fowler, M. Laca, I. Raeburn, 1999, [647]/ D. Drinen et al., 1999-2005, [525, 526, 527]/ V. Deaconu, 2000, [480]/ R. Hoffmann, 2001, [833]/ A. Kumjian, P. S. Muhly, D. Pask, I. Raeburn, M. Tomforde, and coauthors, 2001-2003, [485, 526, 1538, 1875, 1146], [197, 1541, 494, 1435]/ T. Bates, Jeong Hee Hong, I. Raeburn, W. Szymanski, 2002, [196]/ J. A. Jeong, G. H. Park, D. Y. Shin, 2001 [886]/ M. Tomforde, 2002-2006, [1872, 1873, 1875, 1874, 1876, 1877]/ T. Katsura, 2003, [1052]/ P. S. Muhly, M. Tomforde, 2003, [1434]/ E. Katsulis, D. W. Kribs, 2004-2006, [1046, 1049, 1047]/ T. Katsura, 2004-2008, [1053, 1055, 1056, 1059]/ J. Tyler, 2004, [1925]/ I. Raeburn, A. Sims, 2005, [1615, 1617]/ T. Crisp, D. Gow, 2004-2006, [445, 447]/ C. Farthing, 2006-2008, [624, 625]/ M. Ionescu, 2006, [858]/ J. Quigg, 2006, [1610]/ T. Yeend, 2006, [2044]/ D. W. Kribs, B. Solel, 2007, [1125]/ Inhyeop Yi, 2007, [2045]/ D. Pask, A. Rennie, A. Sims, 2008, [1540]/ T. Katsura, P. S. Muhly, A. Sims, M. Tomforde, 2008, [1060, 1062]/ A. Kumjian, D. Pask, A. Sims, 2008, [1148]/ S. Eilers, M. Tomforde, 2010, [571]/ G. Abrams, M. Tomforde, 2011, [23]/ A. Kumjian, D. Pask, A. Sims, 2011, [1149]/ Sh. Yamashita, 2011, [2037]/ N. Brownlowe, 2012, [312]/ A. L. Carey, J. Phillips, A. Rennie, 2012, [378]/ S. J. McCann, 2012, [1337, 1338]/ V. Deaconu, A. Kumjian, J. Quigg, 2012, [487]/ A. an Huef, M. Laca, I. Raeburn, A. Sims, 2012, [73]/ S. Kaliszewski, J. Quigg, coauthors, 2013-15, [991, 985]/ R. Exel, E. Pardo, 2014, [604]/ V. Deaconu, 2014, [483]/ S. E. Arklint, J. Gabe, E. Ruiz, 2016, [142]/ and others.

Mathematical and theoretical physics, quantum probability:

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M. Hilsum, 1989, [822]/ S. Baaj, P. Julg, 1983, [169]/ S. Baaj, G. Skandalis, 1989, [170]/ S. L. Woronowicz, 1991, [2004] S. L. Woronowicz, K. Napiórkowski, 1992, [2005]/ E. C. Lance, 1994, [1184]/ J. Kustermans, 1997, [1158, 1156]/ Arupkumar Pal, 1995/1998, [1510, 1511, 1512]/ A. Popovici and D. Popovici, 2000, [1597]/ D. Kucerovsky, 2002, [1135]/ C. Webster, 2004, [1982]/ St. Damaville, 2004/2007, [463, 464]/ M. Frank, K. Sharifi, 2008-2010, [1753, 689, 690]/ Y. Savchuk, K. Schmüdgen, 2008, [1704]/ J. Bhowmick, 2009, [233, 234, 235]/ K. Sharifi, 2009-2012, [1740, 1741, 1742, 1745, 1749, 1747, 1748]/ M. Daws, 2011, [472]/ M. Forough, A. Niknam, 2011, [640, 642, 637]/ J. Kaad, M. Lesch, 2012, [945]/ M. S. Moslehian, M. Chakoshi, 2012, [1398]/ H. Schlieter, W. Werner, 2013, [1719]/ R. Gebhardt, K. Schmüdgen, 2015, [721]/ S. Roy, L. Woronowicz, 2016, [1682]/ M. Forough, 2017, [638]/ and others.

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J.-P. Serre, 1957, [1735]/ R. G. Swan, 1962, [1827, 1828, 1829]/ J. Dixmier, A. Douady, 1963, [506] A. O. Takahashi, 1971, [1836, 1837, 1835]/ K. H. Hofmann, 1972, [835]/ M. J. Dupré, 1972, [532, 533, 534]/ J. Varela, 1974, [1930], J. Fell, 1977, [628]/ M. A. Rieffel, 1983/85/88, [1653, 1654, 1658]/ A. S. Mishchenko, 1984, [1370]/ A. J. L. Sheu, 1987, [1764]/ R. G. Swan, 1987, [1831]/ J. M. S. Fell, R. S. Doran, 1988, [629]/ G. Landi, 1997, [1187]/ N. C. Phillips, N. Weaver, 1998, [1573]/ I. Raeburn, D. P. Williams, 1998, [1622]/ N. Weaver, 2001, [1981]/ K. Kawamura, 2003, [1064]/ Lun-Chuan Zhang, 2004, [2069]/ Chi-Keung Ng, 2006, [1459]/ P. F. Baum, P. M. Hajac, R. Matthes, W. Szymański, 2007, [198]/ G. A. Elliott, K. Kawamura, 2008, [586]/ D. Freemann, D. Poore, A. R. Wei, M. Wyse, 2014, [693]/ A. Rennie, A. Sims, 2016, [1641]/ and others.

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M. A. Rieffel, 1981-83, [1649, 1653]/ M. De Brabander, 1984, [474]/ B. Brenken, J. Cuntz, G. A. Elliott, R. Nest, 1987, [296]/ J. A. Packer, 1987/88, [1501, 1503]/ M. A. Rieffel, 1988/90, [1658, 1657, 1659], S. G. Walters, 1994/95/2003, [1969, 1970, 1967]/ G. A. Elliott, Qing Lin, 1995, [589, 1239]/ F. P. Boca, 1996, [278]/ M. A. Rieffel, A. Schwarz, 1999, [1667]/ A. Astashkevitch, A. Schwarz, 2001, [158]/ G. A. Elliott, Hanfeng Li, 2003, [588]/ Hanfeng Li, 2003-2008, [1221, 588, 587]/ F. Luef, 2006-2009, [1266, 760, 1268]/ R. Nest,

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N. C. Phillips, 1989, [1572]/ J. Weidner, 1989, [1987, 1988]/ C. Schochet, 1994, [1721]/ Yu. I. Jurayev, F. Saripov, 2000, [939, 1760]/ M. Joiţa, 2001-2004, [895, 896, 897, 898, 899, 901, 902, 900, 904, 905, 903, 906, 910, 907, 908, 909, 913, 911, 919, 914, 917, 915, 918, 916, 912, 920, 921, 924] A. Khosravi, M. S. Asgari, M. Azhini, 2004/2006, [1080, 1082, 1083]/ and others.

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D. P. Blecher, 1995-2005, [254, 256, 260]/ D. P. Blecher, P. S. Muhly, V. I. Paulsen, 2000, [272]/ E. G. Effros, Zhong-Jin Ruan, 2000, [567]/ D. P. Blecher, V. I. Paulsen, 2001, [456]/ M. Neal, B. Russo, 2003, [1449]/ D. P. Blecher, Ch. Le Merdy, 2004, [270]/ B. Magajna, 2005, [1285]/ V. I. Paulsen, 2005, [1546]/ D. P. Blecher, D. M. Hay, M. Neal, 2008, [264]/ W. Grilliette, 2014, [759]/ and others.

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Zhong-Jin Ruan, 2007, [513]/ R. Exel, 2007, [603]/ G. K. Eleftherakis, V. I. Paulsen, 2008-2012, [573, 581, 575]/ D. Bohle, W. Werner, 2010, [280]/ D. Bohle, W. Werner, 2010-2011, [279, 280, 281, 282]/ G. Andreolas, 2012, [93]/ L. J. Bunce, B. Feely, R. M. Timoney, 2012, [336]/ A. Skalski, 2012, [1777]/ F. Abadie, D. Ferraro, 2016, [14]/ B. Russo, 2016, [1687]/ and others.

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N. Wiener, P. R. Masani, 1957-66, [1995, 1996, 1321], [1320, 1322, 1323]/ R. M. Loynes, 1965, [1248]/ H. Salehi, 1965-67, [1698, 1699, 1700]/ P. P. Saworotnow, 1983, [1707]/ H. Fuge, 1995, [705] / U. Gerecke, J. Lorenz, 1995, [723]/ A. Kokschal, 1995, [1110]/ D. Popovici, 1996-98, [1599, 1600, 1602]/ O. Zuchanke, 1997, [2101]/ Y. Kakihara, 1997, [982]/ A. Lasarow, 2000, [1204]/ M. Frank, L. Klotz, 2002, [674]/ L. Klotz, A. Lasarow, 2003, [1101, 1100]/ K. B. Sinha, D. Goswami, 2007, [1775]/ and others.

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G. Zimmermann, J. Benedetto, 1994/1997, [2099, 220]/ M. A. Rieffel, 1997-now, [1663, 1664]/ M. Frank, D. R. Larson, 1998-now, [676, 675, 677]/ M. A. Coco, M. C. Lammers, 2001, [413]/ Huaixin Cao, Jianwei Zhao, 2002, [370]/ P. G. Casazza, M. C. Lammers, 2003, [388]/ A. Khosravi, N. A. Moslemipour, 2003-2004, [1091, 1089, 1090]/ F. Luef, 2003-2009, [1262, 1263, 1264, 1265, 1267, 1272, 760]/ J. A. Packer, M. A. Rieffel, 2003-2007, [1508, 1509, 1504, 1505]/ I. Raeburn, S. J. Thompson, 2003, [1619]/ P. Wood, 2003-2004, [2003, 2002]/ Lun Chuan Zhang, 2003, [2066]/ (Do Ngoc Diep, 2004, [505])/ Maozheng Guo, Bin Meng, Xiaohong Cao, 2004, [1347, 767, 1348]/ V. Kaftal, D. R. Larson, 2004, [950]/ D. P. Larson, 2005, [1203]/ Bin Meng, 2005, [1341]/ Xi-Yan Yao, 2005-2011, [2041, 2042, 2043]/ L. Arambašić, 2006-2007, [115, 116]/ Wu Jing, Deguang Han, Ram N. Mohapatra, 2006, [894, 893]/ A. Khosravi, F. Sattari, 2006, [1092]/ M. A. Rieffel, 2006, [1664]/ M. Joiţa, 2007-2009, [909, 919, 924] / N. S. Larsen and I. Raeburn, 2007, [1202]/ P. Balázs, 2008, [185]/ Deguang Han, Wu Jing, D. R. Larson and Ram N. Mohapatra, 2008-2009,[783, 784]/ V. Kaftal, D. R. Larson, Shuang Zhang, 2008-2009, [952, 951]/ Hanfeng Li, 2008, [1222]/ Mrs. Ariyani, 2008, [140]/ Huan Kun Fu, Bin Meng, Fang Fang Dong, 2009-2011, [702, 701, 703, 704, 511, 512]/ Deguang Han, 2009, [782]/ F. Luef, 2009, [1268]/ K. R{osland, 2008-2011, [1684, 1685]/ Xiang-Chun Xiao, Xiao-Ming Zeng, 2009-2010, [2016]/ De Guang Han, Peng Tong Li, Bin Meng, Wai Shing Tang, 2011, [780]/ A. Nazari, M. Rashidi Kouchi, M. Amini, 2011-2012, [1629, 1632]/ A. Alijani, M. A. Dehghan, 2012, [50]/ A. Askarizadeh, M. A. Dehghan, 2013, [156]/ A. A. Arefijammal, S. Ghasemi, 2013, [133]/ M. Azhini, M. Haddadzadeh, 2013, [165]/ De Guang Han, Wu Jing, D. R. Larson, Peng Tong Li, R. M. Mohapatra, 2013, [779]/ Zhong-Qi Xiao, 2013, [2008, 2009]/ D. Freemann, D. Poore, A. R. Wei, M. Wyse; R. Hotovy, E. Martin, 2014, [693, 692]/ Bin Meng, Xi Xi Chen, 2014, [1346]/ B. A. Purkis, 2014, [1606]/ B. Asadi, Z. Hassanpour-Yakhdani, 2016, [152]/ B. Dastourian, M. Janfada, 2016, [468]/ L. Găvruţa, P. Găvruţa, 2016, [717]/ C. A. Bearden, 2016, [206]/ Lj. Arambašić, D. Bakić, 2017, [117]/ and others.

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The graphic below lists the number of publications published in a year. The number for 2015-2016 includes some circulating preprints the final year of publication of which has to be defined through the years.

year	number of publications	*mm*
1953	1	
1954	0	
1955	1	
1956	1	
1957	1	
1958	1	
1959	1	
1960	2	
1961	0	
1962	2	
1963	1	
1964	2	
1965	4	
1966	3	
1967	2	
1968	1	
1969	1	
1970	0	
1971	4	
1972	4	
1973	2	
1974	8	
1975	2	
1976	6	
1977	5	
1978	6	
1979	9	
1980	12	
1981	10	
1982	15	
1983	19	
1984	18	
1985	24	
1986	19	
1987	31	
1988	33	
1989	28	
1990	30	
1991	24	
1992	22	
1993	24	
1994	29	
1995	35	
1996	41	
1997	60	
1998	55	
1999	53	
2000	65	
2001	87	
2002	71	
2003	62	
2004	79	
2005	67	
2006	73	
2007	80	
2008	93	
2009	79	
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2011	98	
2012	105	
2013	77	
2014	88	
(2015)	114	
(2016)	118	
(2017)	19	

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