

Prof. Dr. Heinz Junek
Institute of Mathematics
University of Potsdam

1. Dissertationes

- [D1] Über die Vervollständigung partiell geordneter Halbgruppen II. Art, Thesis (Dr. rer. nat.), Potsdam, June 1969.
- [D2] Operatorenideale und lokalkonvexe Räume, Habilschrift (Dr. scientiae nat.), Potsdam, July 1979.

2. Books

- [B1] H. Junek: Locally Convex Spaces and Operator Ideals, Teubner-Texte zur Mathematik, Vol. 56, Teubner Verlag Leipzig 1983.
- [B2] H. Junek: Analysis, mathematik-ABC, Teubner Verlag 1998.
- [B3] H.-A. Braunß/H. Junek/T. Krainer: Grundkurs Mathematik in den Biowissenschaften, Birkhäuser 2006.

3. Journals

- [J1] Die Vervollständigung partiell geordneter Halbgruppen II. Art, Math. Nachr. 49(1971)1-25.
- [J2] Über die Vervollständigung partiell geordneter Halbgruppen, Wiss. Zeitschr. PH Potsdam, 16(1972)159-162
- [J3] Der Körper der reellen Zahlen, Wiss. Zeitschr. PH Potsdam, 16(1972)159-162.
- [J4] Zum Problem der Identitätenvererbung bei Dedekind-Vervollständigungen partiell geordneter universeller Algebren, Math. Nachr. 52(1972)35-37.
- [J5] Vervollständigung partiell geordneter universeller Algebren, Math. Nachr. 56(1973)175-178.
- [J6] Über verallgemeinerte Operatorenideale in Hilberträumen, Math. Nachr. 62(1974)137-145.
- [J7] Über Hüllenoperationen, Reflektoren und Ideale, Wiss. Zeitschr. PH Potsdam, 20(1976)103-108.
- [J8] Über lokalkonvexe Räume und Operatorenideale, Math. Nachr. 71(1976)7-22.

- [**J9**] Ein Verfahren zur Verfeinerung lokalkonvexer Topologien, Wiss. Zeitschr. PH Potsdam 21(1977)211-214.
- [**J10**] On dual spaces of locally convex spaces defined by ideals of operators, Serdica Bulg.Math.Publ. 3(1977)227-235.
- [**J11**] Ideals of operators and locally convex spaces, Proc. Conf. Topology and Measure II , Vitte 1975, Wiss. Beiträge Universität Greifswald (1978)167-172.
- [**J12**] Factorization of linear operators mapping (DF)-spaces into (F)-spaces, Serdica Bulg.Math.Publ. 7(1981)372-379.
- [**J13**] Topologische Ideale unbeschränkter Operatoren im Hilbertraum, Wiss. Zeitschr. PH Potsdam 25(1981)101-110. Coauthor: J. Müller.
- [**J14**] The structure of bounded sets in (F)-spaces, Wiss. Beiträge d. Universität Greifswald, Proc. Conf. Topology and Measure III, (1982)101-103.
- [**J15**] Ideals in algebras of unbounded operators, Proc. X.Winter School Abstract Analysis , Prag 1981,S.89-94.
- [**J16**] A tensor product characterization of nuclear spaces, Wiss. Zeitschr. PH Potsdam 25(1981)785-789. Coauthor: K.John (Prag).
- [**J17**] Factorization of operators mapping (F)- into (DF)- spaces, Zeitschr.für Analysis und Anwendungen 1(1982)37-45.
- [**J18**] Locally Convex Spaces and Operator Ideals, Mitt. Math. Gesellschaft, 2/3(1985)53-54.
- [**J19**] Linear operators in (F)- spaces, Proc.Conf. Banach Space Theory and its Applications, Bucharest 1981, in Lecture Notes in Math. Vol. 991.
- [**J20**] Bilinear mappings and operator ideals, Proc. XIII Conf.Abstract Analysis, Prag 1985, in Suppl. Rend.del Circ.Mat.di Palermo , 10(1985)25-35.
- [**24**] Holomorphic functions on intermediate spaces, Wiss. Zeitschr. PH Potsdam 1(1987)131-137.
- [**J21**] On modulation spaces, Wiss. Zeitschr. PH Potsdam 1(1988)153-162. Coauthor: Tran Van Vuong.
- [**J22**] Computereinsatz in der Analysis-Ausbildung (150 p.), Potsdamer Forschungen Vol. 50, 1987, 600 copies.
- [**J22**] The geometric-topological structure of the bounded subsets in (F)-spaces, Proc. Conf. Func. Anal., Zielona Gora, September 1988.

- [J23]] Fehlerbetrachtung beim Chem. Rechnen, Chemie in der Schule 33(1986)12, S. 490.
- [J24]] On types of polynomials and holomorphic functions on Banach spaces, Note di Mat. Univ. Lecce Ital. Vol.X- n.1(1990)47-58. Coautor : A. Braunß.
- [J25]] Polynomials and holomorphic functions on interpolation spaces, Proc. 17. Conf. Abstract Anal., Prag 1989, Acta Univ.Carol., Math.et Phys. 30(1989)69-75.
- [J26]] Rekursive Programmierung am Beispiel rekursiver Figuren, Proc. COMBI 88, Leipzig 1989, in Mitt. Ges. Informatik, 2(1990)30-31.
- [J27]] Injective and radial ideals of bilinear operators, Wiss. Zeitschr. PH Potsdam, 1(1990)111-115.
- [J28]] Representation of linear functionals by a trace on algebras of unbounded operators defined on dualmetrizable domains, Proc. 18.Conf. Abstract Anal., Prag 1990, Acta Univ.Carol.Mat.et Phys.,31(1990).
- [J29]] Maximal Op^* -Algebras on DF- Domains, Zeitschr. f. Analysis und Anw. 9(1990)Heft 5,403-414.
- [J30]] Algebras of unbounded operators on (DF)- domains, Proc. 5th Wangerooge Conf. Funct. Analysis, November 1990.
- [J31]] Linear functionals on algebras of unbounded operators on (DF)- domains, Wiss. Ztschr. BLH, 2(1991)119-127.
- [J32]] Factorization of operator ideals and the BB- property, in Functional Analysis, Lecture Notes Pure and Applied Math., Dekker-NewYork, Vol.150(1993)203-216.
- [J33]] (Coauthor M. Matos) Unconditionally p-summing polynomials, Archiv d. Math. 70(1998)41-51.
- [J34]] (Coauthors H.-A. Braunss, E. Plewnia) Approximation numbers for polynomials. In: Finite or Infinite Dimensional Complex Analysis; Lect. Notes in Pure and Applied Maths., ed. by J. Kajiwara/Z. Li/K.H. Shon, New York 2000, Vol. 214, pp35-46.
- [J35]] (Coauthors G. Botelho (Uberlandia), H.A. Braunss (Potsdam)) Almost p-summing polynomials and multilinear mappings, Archiv der Mathematik, Volume 76 Issue 2 (2001) pp 109-118.
- [J36]] (Coauthors: H.A. Braunss (Potsdam), E. Plewnia (Düsseldorf)) Approximation numbers for polynomials. In: Finite or Infinite Dimensional Complex Analysis; Lect. Notes in Pure and Applied Maths., ed. by J. Kajiwara/Z. Li/K.H. Shon, New York 2000, Vol. 214, pp35-46.

- [J37]] (Coauthors G. Botelho (Uberlandia), H.A. Braunß(Potsdam)) Almost summing polynomials on Banach spaces, Archiv der Mathematik, Volume 76 Issue 2 (2001) pp 109-118.
- [J38]] (Coauthor M. Menghini (Rome)) Processi di crescita e decadimento, Progetto Alice, Vol V (2004) Nr. 13, 79-102.
- [J39]] (Coauthor H. A. Braunss (Potsdam)) Factorization of injective ideals by interpolation, Journal of Math. Anal. Appl. 297 (2004)740-750.
- [J40]] (Coauthors G. Botelho (Uberlandia), H.A. Braunss (Potsdam), D. Pellegrino (Campo Grande)) Holomorphy types and ideals of multilinear mappings, Studia Math. 177 (1), (2006),43-65.
- [J41]] (Coauthors M. Matos (Campinas), D. Pellegrino (Soao Pessoa)) Inclusion theorems for absolutely summing holomorphic mappings, Proc. Am. Math. Soc. 136, No. 11, 3983-3991 (2008)
- [J42]] (Coauthors H.A. Braunss (Potsdam), G. Botelho (Uberlandia), D. Pellegrino (Soao Pessoa)) Almost summing polynomials and multilinear mappings between Banach spaces, (submitted Studia Mathematica))
- [J43]] (Coauthors H.A. Braunss (Potsdam), G. Botelho (Uberlandia), D. Pellegrino (Soao Pessoa)) Inclusions and coincidences for multiple summing multilinear mappings, Proc. Amer. Math. Soc. vol. 137, No. 3, 991-1000 (2009), electr. publ. Oct 8, 2008.
- [J44]] (Verantwortlicher Herausgeber) Analysis in der Lehrerausbildung, MU - Der Mathematikunterricht, Jahrgang 54, Heft 02-2008.

4. Teaching material

- [T01]] Universelle Algebra, 25 pages, 75 copies, Potsdam 1971.
- [T02]] Gewöhnliche Differentialgleichungen, 200 pages, Potsdam 2006.
- [T03]] Einführung in die Analysis I/II, 230 pages, Potsdam 1992.
- [T04]] Mass- und Integrationstheorie, 150 pages, Potsdam 2008.
- [T05]] Introduction to Dynamical Systems, Potsdam 2000.
- [T06]] Stochastische Differentialgleichungen, Potsdam, 150 pages, Potsdam 2008.
- [T07]] Ideals of Polynomials on Banach Spaces, 150 pages, Pohang 2003.
- [T07]] Analysis I/II, Potsdam 2007/2008.