TU Braunschweig   Sommer 2018
Institut *"Computational Mathematics"*
Prof. Dr. R. Hempel

Literatur zur Funktionalanalysis II, Fouriertransformation und Distributionen.

[DMcK] H Dym, HP McKean, *Fourier series and integrals.* Probability and Mathematical Statistics No. 14. Academic Press, New York-London, 1972.

[Ed] RE Edwards, *Functional Analysis.* Holt, Rinehart and Winston, 1965

[GW] C Gasquet, P Witomski, *Fourier Analysis and Applications.* Texts in Applied Mathematics, Springer 1998.

(∗)[Heu] H. Heuser: *Funktionalanalysis.* 3. Aufl. Teubner, Stuttgart 1992.

[Hö] L Hörmander, *The Analysis of Linear Partial Differential Operators I—IV.* Springer, 1983–85.

[Kö] E Körner, *Fourier Analysis,* Cambridge Univ. Press 1989

[KF] A.N. Kolmogoroff and S.V. Fomin, *Elements of the Theory of Functions and Functional Analysis.* Graylock, Rochester 1957 (gibt's auch in Deutsch und Französisch)

[La] P. Lax, *Functional Analysis.* Wiley, New York 2002

[LL] M. Loss and E. Lieb, *Analysis.* Graduate Studies in Mathematics, vol. 14. Amer. Math. Soc., Providence 1997.

(∗) [RS-I] M. Reed, B. Simon: *Methods of modern mathematical physics. I. Functional Analyis. Revised and enlarged edition.* Academic Press, New York 1980.

(∗) [RS-II] M. Reed, B. Simon: *Methods of modern mathematical physics. II. Fourier analysis, self-adjointness.* New York 1975.

(∗) [Ru] W. Rudin: *Functional Analysis.* McGraw-Hill, New York 1973.

[Schr] H. Schröder: *Funktionalanalysis.* Akademie Verlag, Berlin 1997.

[Schw] L. Schwartz, *Théorie des Distributions.* Hermann, Paris 1966

[So] S.L. Sobolev: *Applications of functional analysis in mathematical physics.* Providence 1963.

[Tr] F Trèves, *Topological Vector Spaces, Distributions, and Kernels.* Academic Press, 1967

[V] A Vretblad, *Fourier Analysis and its Applications.* Graduate Texts in Mathematics 223, Springer, 2003

(∗) [We] D. Werner: *Funktionalanalysis.* Springer, Berlin 1995.

(∗) [Wlo] J. Wloka: *Funktionalanalysis und Anwendungen.* Berlin 1971.

(∗)[Y] K. Yosida: *Functional analysis.* Springer, Berlin etc., 1965

Literatur zu Lokalkonvexen topologischen Vektorräumen:

Neben [R], [RS-I], [Y] gibt es die Monographien

[KN] J Kelley and I Namioka, *Linear Topological Spaces.* Van Nostrand, Princeton 1963.

[Kö] G Köthe, *Topological Vector Spaces.* Springer, 1969.

[Ro] A and W Robertson, *Topological Vector Spaces.* Cambridge Univ. Press, 1964.

[Sch] H Schaeffer, *Topological Vector Spaces.* Macmillan, 1966

Grundlagen etc.

[C] H Cartan, *Théorie élémentaire des fonctions analytiques d'une ou plusieurs variables complexes.* Verschiedene Auflagen in allen möglichen Sprachen und Verlagen.

[Dieu1] J. Dieudonné: *Foundations of modern analysis.* Academic Press, New York, 1960

[Dieu1] J. Dieudonné: *History of Functional Analysis.* North Holland, Amsterdam 1981.

[tD] T. tom Dieck: *Topologie.* De Gruyter, Berlin 1991.

[Du] J.E. Dugundji: *Topology.* Allyn and Bacon, Boston 1966.

[Ke] J Kelley, *General Topology.* Van Nostrand etc., Princeton 1955