

# List of Publications

## Research monograph

- [1] \* M. Ruzhansky, V. Turunen: *Symmetries and Pseudo-Differential Operators: Background Analysis and Advanced Topics*. Birkhäuser, Basel, 2009.

## Refereed scientific articles

- [2] \* M. Ruzhansky, V. Turunen: *Quantization of pseudo-differential operators on the torus*. To appear in Journal of Fourier Analysis and Applications. 35 pages.
- [3] \* M. Ruzhansky, V. Turunen: *On the toroidal quantization of periodic pseudo-differential operators*. To appear in Numerical Functional Analysis and Optimization. 21 pages.
- [4] \* M. Ruzhansky, V. Turunen: *On pseudo-differential operators on group  $SU(2)$* . Oper. Theory Adv. Appl., 189, 307–322. Birkhäuser, Basel, 2008.
- [5] \* M. Ruzhansky, V. Turunen: *On the Fourier analysis of operators on the torus*. Modern Trends in Pseudo-Differential Operators, 87–105, Oper. Theory Adv. Appl., 172, Birkhäuser, Basel, 2007.
- [6] \* J. Malinen, O. Nevanlinna, V. Turunen, Z. Yuan: *A lower bound for the differences of powers of linear operators*. Acta Math. Sin. (Engl. Ser.) **23** (2007), 4, 745–748.
- [7] \* V. Turunen: *Pseudodifferential calculus on the 2-sphere*. Proc. Estonian Acad. Sci. Phys. Math., 2004, **53**, 3, 156–164.
- [8] V. Turunen: *Smooth operator-valued symbol analysis*. Functions, series, operators : Alexits Memorial Conference, Budapest, 9-13. August 1999 / edited by L. Leindler, F. Schipp, J. Szabados. Budapest : Janos Bolyai Mathematical Society, 2002, 417–431.

- [9] \* V. Turunen: *Commutator characterization of periodic pseudodifferential operators*. Zeitschrift für Analysis und ihre Anwendungen **19** (2000), 1, 95–108.
- [10] V. Turunen, G. Vainikko: *On symbol analysis of periodic pseudodifferential operators*. Estonian Mathematical Society, Differential and Integral Equations: Theory and Numerical Analysis, Tartu, Estonia, 1999, 107–114.
- [11] \* V. Turunen, G. Vainikko: *On symbol analysis of periodic pseudodifferential operators*. Zeitschrift für Analysis und ihre Anwendungen **17** (1998), 1, 9–22.

#### **Other scientific refereed publications**

- [12] \* V. Turunen: *Pseudodifferential calculus on compact Lie groups and homogeneous spaces*. Helsinki University of Technology, PhD Thesis, 2001. <http://lib.hut.fi/Diss/2001/isbn9512256940/>
- [13] V. Turunen: *Symbol analysis of periodic pseudodifferential operators*. Helsinki University of Technology, Master's Thesis, 1997, 63 p.

#### **Other scientific publications**

- [14] V. Turunen: *Differentiability in locally compact metric spaces*. Helsinki University of Technology, Research Report A487, 2005. <http://www.math.hut.fi/reports/a487>
- [15] V. Turunen: *Function Hopf algebra and pseudodifferential operators on compact Lie groups*. Helsinki University of Technology, Research Report A465, 2004. <http://www.math.hut.fi/reports/a465>.
- [16] V. Turunen: *Sampling at equiangular grids on the 2-sphere and estimates for Sobolev space interpolation*. Helsinki University of Technology, Research Report A464, 2003. <http://www.math.hut.fi/reports/a464>
- [17] V. Turunen: *Pseudodifferential calculus on compact homogeneous spaces*. Helsinki University of Technology, Research Report A436, 2001. <http://www.math.hut.fi/reports/a436>.

- [18] V. Turunen: *Pseudodifferential calculus on compact Lie groups*. Helsinki University of Technology, Research Report A431, 2001. <http://www.math.hut.fi/reports/a431>

### **Book review**

- [19] V. Turunen, G. Vainikko: *Book Review (Boggiatto P., Buzano E., Rodino L.: Global Hypoellipticity and Spectral Theory. Akademie Verlag. 1996)*. Zeitschrift für Analysis und ihre Anwendungen, 17 (1998), 3, 779–780.