

Literaturauswahl zur Vorlesung “Symmetrische Räume”

Differentialgeometrie:

- M. DO CARMO, *Riemannian Geometry*, Birkhäuser 1992.
- W.M. BOOTHBY, *An Introduction to Differentiable Manifolds and Riemannian Geometry*, Academic Press 1986.
- P. EBERLEIN, *Geometry of Nonpositively Curved Manifolds*, University of Chicago Press 1997.
- B. O’NEILL, *Semi-Riemannian Geometry*, Academic Press 1983.
- M. SPIVAK, *A Comprehensive Introduction to Differential Geometry* (5 volumes), Publish or Perish 1998.

Lie Gruppen:

- B. HALL, *Lie Groups, Lie Algebras and Representations*, Springer 2003.
- R. HERMANN, *Lie Groups for Physicists*, Benjamin 1960.
- J. HILGERT, K. NEEB, *Lie-Gruppen und Lie-Algebran*, Vieweg 1991.
- A. ONISHCHIK, E. VINBERG (Editors), *Lie Groups and Lie Algebras* (3 volumes), Springer 1990.
- J. PRICE, *Lie Groups and Compact Groups*, London Mathematical Society 1977.

Homogene und symmetrische Räume:

- A. ARVANITOEORGOS, *An Introduction to Lie Groups and the Geometry of Homogeneous Spaces*, AMS 2003.
- W. BALLMANN, *Symmetric Spaces*, Lecture Notes 1999, <http://people.mpim-bonn.mpg.de/hwbllmnn/notes.html>
- S. HELGASON, *Differential Geometry, Lie Groups and Symmetric Spaces*, AMS 2001.

Lokal symmetrische Räume und arithmetische Gruppen:

- D. WITTE-MORRIS, *Introduction to Arithmetic Groups*, <http://arxiv.org/src/math/0106063/anc>

Kepler-Vermutung, Geschichte:

- T. HALES, *The Kepler Conjecture*.
- *MacTutor History of Mathematics*, <http://www-groups.dcs.st-and.ac.uk/~history/>