DIFFERENTIAL GEOMETRY (M7110)

This is a list of books and lectures notes that cover the material of the class and also provide further reading.

References

- A. Čap, J. Slovák: Parabolic Geometries I: Background and General Theory, Math. Surv. and Monographs 154, AMS 2009; Sections 1.3 and 1.4.
- [2] A. Čap: Lie Groups (lecture notes), available at https://www.mat.univie.ac.at/ cap/files/LieGroups.pdf
- [3] A. Čap: Geometry of Homogeneous spaces (lecture notes), available at https://www.mat.univie.ac.at/ cap/files/Geom-Homog.pdf
- [4] W. Fulton and J. Harris: Representation Theory: A first Course, Graduate Texts in Mathematics 129, Springer, 1991.
- [5] A.W. Knapp: Lie Groups beyond an introduction, Progress in Mathem. 140, Birhäuser, 1996.
- [6] S. Kobayashi and K. Nomizu: Foundations of Differential Geometry, Volume I and II, Interscience 1963 and 1969; Chapters II-V and X, XII.
- [7] P. Michor: Topics in Differential Geometry, AMS 2008; Chapter II, IV, and V.
- [8] R. S. Millman and Ann K. Stehney: The geometry of connections, AMS, Monthly, 80 (1973), 475-500.
- C. Wendl: Lecture Notes on Bundles and Connections, available here https://www2.mathematik.hu-berlin.de/ wendl/connections.html