## F4D1 - ANALYSIS AND GEOMETRY ON MANIFOLDS

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### Preliminaries

These notes roughly correspond to the course F4D1 – Analysis and Geometry on Manifolds taught by Prof. Laurent Côté at the Universität Bonn in the Winter 2024/25 semester. These notes are LaTeX-ed after the fact with significant alteration and are subject to misinterpretation and mistranscription. Use with caution. Any errors are undoubtedly my own and any virtues that could be ascribed to these notes ought be attributed to the instructor and not the typist.

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# 1. Lecture 1

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