

**Abstrakt anglicky-
Mercator projection, loxodromes, and related topics**

This bachelor thesis deals with the Mercator projection from both today's and historical point of view. Special emphasis is placed on the formal derivation of the projection, and on the studying of its properties. The projection for the surface of revolution is also considered. Then the thesis deals with the loxodromes, their properties, and their relation to the Mercator projection. The loxodromes on the surface of revolution are also considered, again. And the thesis ends with some relations between the Mercator projection, the stereographic projection, and the complex exponential function.