

### Lukas Maximilian Peter Bauer, BSc

# Field-aligned mesh generation and enhancements of the guiding-center orbit code GORILLA

#### **MASTER'S THESIS**

to achieve the university degree of Diplom-Ingenieur

Master's degree programme: Technical Physics

submitted to

## **Graz University of Technology**

Supervisor

Ass.Prof. Dipl.-Ing. Dr.techn. Winfried Kernbichler

Institute of Theoretical and Computational Physics

Co-Supervisor: Dipl.-Ing. Michael Eder, BSc

#### **AFFIDAVIT**

I declare that I have authored this thesis independently, that I have not used other than the declared sources/resources, and that I have explicitly indicated all material which has been quoted either literally or by content from the sources used. The text document uploaded to TUGRAZonline is identical to the present master's thesis.

31.07.2020	Luhas Bauer
Date	Signature