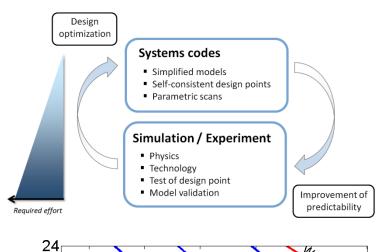
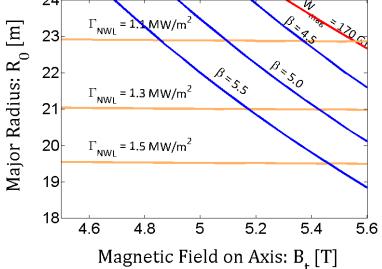
Integrated Concept Development of Next-Step Helical Axis Advanced Stellarators



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Overview

- Systems Codes models have been developed and tested for the HELIAS concept
- Detailed transport simulations are employed to describe the plasma confinement

Integrated Design Analysis

- Engineering and Physics tools are coupled indirectly using results as input for each other
- Several iterations forth and back lead to a consistent design
- ➤ low calculation time of a single desgin point allow to carry out sensitivity studies over a wide parameter space and optimisation
- ➤ Evolving method, but valueable tool to prepare designs for the next-step devices





