



Design of a Radial Line Slot Array Antenna

Research Thesis

Theory and Motivation:

- RLSA antennas offer high antenna gain in a planar form factor
- The relatively large input reflection of RLSAs can be improved by the so-called beamsquint technique.

Application:

- Communication systems

Tasks:

- Design and optimization of a RLSA antenna
- Exploration of the beamsquint technique
- Measurement of prototypes

Information:

- Requires some knowledge of high-frequency circuit design and concepts
- Basic knowledge of RF simulations with CST would be ideal
- Thesis can be written in either German or English
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