

HONORS THESIS
DEFENSE

The Artin-Schreier Theorem in Galois Theory

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Abstract: We first list and state some basic definitions and theorems of the Galois theory of finite extensions, as well as state and prove the Kummer theory and the Artin-Schreier extensions as prerequisites. The main part of this thesis is the proof of the Artin-Schreier Theorem, which states that an algebraic closed field having finite extension with its subfield F has degree at most two and F must have characteristic 0. After the proof, we will discuss the applications for the Artin-Schreier Theorem.

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Mathematics and Science Center: W303

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MATHEMATICS AND COMPUTER SCIENCE
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