

# Algebra Und Geometrie Der Komplexen Zahlen - Michael Eisler

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Die vorliegende Seminararbeit führt aus algebraischer und geometrischer Sicht in die Welt der Komplexen Zahlen ein. Behandelt werden nicht nur die Grundlagen, sondern auch diverse Aspekte, die in Grundvorlesungen in der Regel keinen Platz finden, beispielsweise die Geschichte der Komplexen Zahlen, komplexe Wurzeln und Potenzen, sowie eine besonders schöne alternative Konstruktion des Körpers der Komplexen Zahlen mittels  $2 \times 2$ -Matrizen. Der Aufbau des Textes ist ähnlich einem Lehrbuch, also Definition - Proposition - Satz - Korollar - etc. Die Beweise werden ausführlich geführt und sind auch für Anfänger gut nachvollziehbar. Zielgruppe sind Studenten, die bereits eine einführende Mathe-Vorlesung besucht haben (z.B. Analysis I) und sich detaillierter mit den Komplexen Zahlen auseinandersetzen möchten. Grundlegende mathematische Fachbegriffe des ersten Semesters werden als bekannt vorausgesetzt (z.B. Körper, Matrix, Bijektion, Vektorraum), mehr aber auch nicht.

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