

# MATH 223A: ALGEBRAIC NUMBER THEORY

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## PRELIMINARIES

These notes roughly correspond to the course **MATH 223A: Algebraic Number Theory** taught by Prof. Melanie Wood at Harvard University in the Fall 2023 semester. These notes are L<sup>A</sup>T<sub>E</sub>X-ed after the fact with significant alteration and are subject to misinterpretation and mistranscription. Use with caution. Any errors are undoubtedly my own and any virtues that could be ascribed to these notes ought be attributed to the instructor and not the typist.

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## 1. LECTURE 1 – 11TH SEPTEMBER 2023

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