

MATH 491/812: ALGEBRAIC NUMBER FIELDS

Instructor: Professor M. Ram Murty, Room 312, Jeffery Hall
Text: Problems in Algebraic Number Theory, by M. Ram Murty and
J. Esmonde, Second Edition, Springer, 2005.

Topics to be covered include: Euclidean rings, algebraic numbers and integers, integral bases, Dedekind domains, ideal class groups, quadratic and higher reciprocity laws, unit groups, and zeta functions. The grade will be based on four assignments.