MATH 87000 - Algebraic Number Theory [14562]
TH, 2:00pm - 4:00pm, Room TBA
Prof. Victor Kolyvagin
3 cr.

Course Description:

The course will be concentrated around the study of the arithmetic of global and local cyclotomic fields. Main topics will include: ideal class group, analytical class number formula, Kummer method for the study of Fermat’s equations over cyclotomic fields and its further developments.

It is supposed that students have had a one-year algebra course and are familiar with the theory of divisors in number fields.

The book to be used: Number Theory by Borevich and Shafarevich.