Course Announcement ST 2026

AKAZie B (Algebraic Number Theory)
Prof. Dr. Frederik Witt

The starting point for algebraic number theory is the question of integer solutions to equations with rational coefficients, a problem that traces back to the ancient Greek mathematician Diophantus. More generally, we will study this question for number fields, i.e. finite extensions of the rational numbers (e.g. Q(i)), together with their associated rings of integers (for Q(i), the ring Z[i], the so-called Gaussian integers). At the end of the course, I would like to address Fermat's Last Theorem, which investigates the solvability of the equation x^n + y^n = z^n for n greater than 2.

Further information on ILIAS:

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