



**Galois Groups over \mathbb{Q} : Proceedings of a Workshop
Held March 23-27, 1987 (Mathematical Sciences
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Galois Groups over \mathbb{Q} : Proceedings of a Workshop Held March 23-27, 1987 (Mathematical Sciences Research Institute Publications)

This volume is the offspring of a week-long workshop on "Galois groups over \mathbb{Q} and related topics," which was held at the Mathematical Sciences Research Institute during the week March 23-27, 1987. The organizing committee consisted of Kenneth Ribet (chairman), Yasutaka Ihara, and Jean-Pierre Serre. The conference focused on three principal themes: 1. Extensions of \mathbb{Q} with finite simple Galois groups. 2. Galois actions on fundamental groups, nilpotent extensions of \mathbb{Q} arising from Fermat curves, and the interplay between Gauss sums and cyclotomic units. 3. Representations of $\text{Gal}(\mathbb{Q}/\mathbb{Q})$ with values in $\text{GL}(2, \mathbb{Z})$ deformations and connections with modular forms. Here is a summary of the conference program: • G. Anderson: "Gauss sums, circular units and the simplex" • G. Anderson and Y. Ihara: "Galois actions on $H^1(\mathbb{P}^1 - \{0, 1, \infty\})$ and higher circular units" • D. Blasius: "Maass forms and Galois representations" • P. Deligne: "Galois action on $H^1(\mathbb{P}^1 - \{0, 1, \infty\})$ and Hodge analogue" • W. Feit: "Some Galois groups over number fields" • Y. Ihara: "Arithmetic aspect of Galois actions on $H^1(\mathbb{P}^1 - \{0, 1, \infty\})$ " - survey talk • U. Jannsen: "Galois cohomology of i -adic representations" • B. Matzat: - "Rationality criteria for Galois extensions" - "How to construct polynomials with Galois group M_{11} over \mathbb{Q} " • B. Mazur: "Deforming $\text{GL}(2)$ Galois representations" • K. Ribet: "Lowering the level of modular representations of $\text{Gal}(\mathbb{Q}/\mathbb{Q})$ " • J-P. Serre: - Introductory Lecture - "Degree 2 modular representations of $\text{Gal}(\mathbb{Q}/\mathbb{Q})$ " • J.

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