Seminar 2021

On Siegel invariants of certain CM-fields

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Abstract: The Siegel-Ramachandra invariants, as special values of Siegel functions of one variable, generate ray class fields over imaginary quadratic fields. Generalizing these invariants we shall introduce ray class invariants of certain CM-fields obtained from classical theta constants of multi-variables. And we will determine the action of the Galois group on these invariants in a concrete way by making use of Shimura's reciprocity law. This is a joint work with Koo, Robert and Shin.

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