

Arithmetic of quadratic extensions

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Abstract: In this talk we will try to outline a combinatorial study of class groups of quadratic extensions of certain quadratic number fields. The easiest case reduced to the study of 200 year old class number problem of Gauss through which the main ideas will be explained. Should time permits one application of the above theory will be explain which related the theory to Lang conjectures. This research is supported by TUBITAK grants 113R017 and 114R073.

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