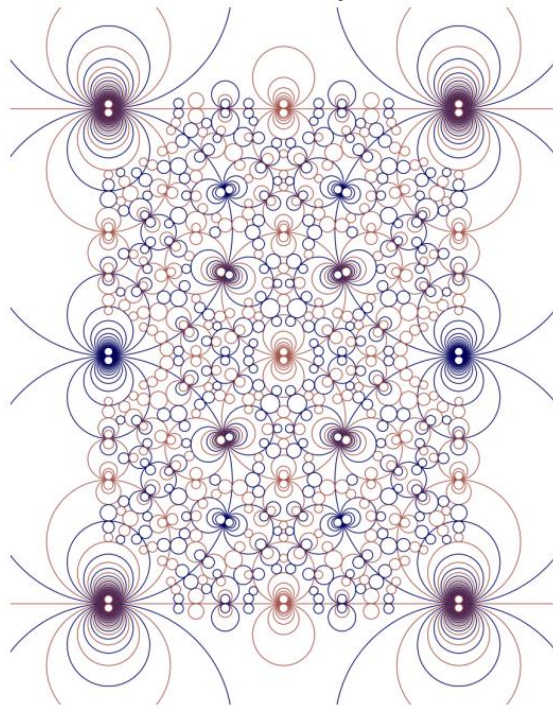


Graduate Mathematics Seminar

A computable formula for the class number of $Q(\sqrt{-p})$, $p = 4n - 1$.

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Abstract: So far there are complicated formulas for the class number of $Q(\sqrt{-p})$, the group of quadratic forms involving square root of a minus a prime, $p = 4n - 1$. The formulas involved the Dirichlet character and the Kronecker symbol. Those formulas are a bit messy and complicated, say, not practical. The formula presented here is based on the floor of a number. Examples will be given. The abstract algebra of this theory will not be touched that much, instead, we will compute a formula for quadratic residues which has a direct connection to the class number formula.

When: Monday, November 22, 2021, 6:00 – 7:00 pm

Where: Zoom

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