Appendix 5: Pictures of prime numbers and ideals for complex fields of class number 2

The pictures show the quadratic character and a picture of prime numbers, units and non-principal prime ideals for some complex quadratic fields of class number 2, namely

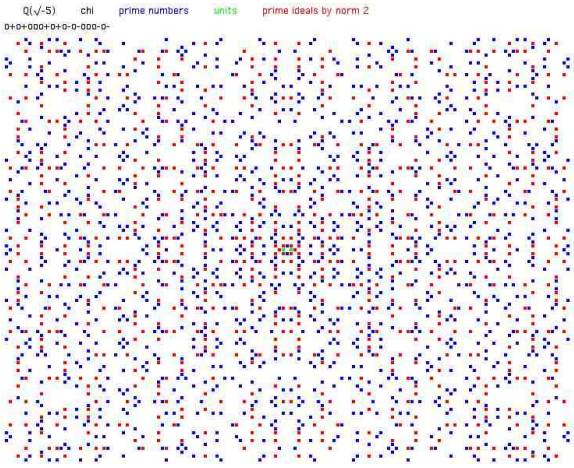
the fields of discriminant congruent 0 modulo 4:

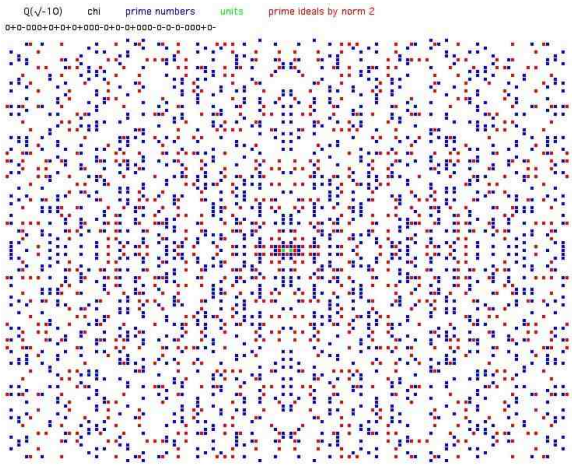
$$Q(\sqrt{-5}), Q(\sqrt{-6}), Q(\sqrt{-10}), Q(\sqrt{-13}), Q(\sqrt{-22})$$

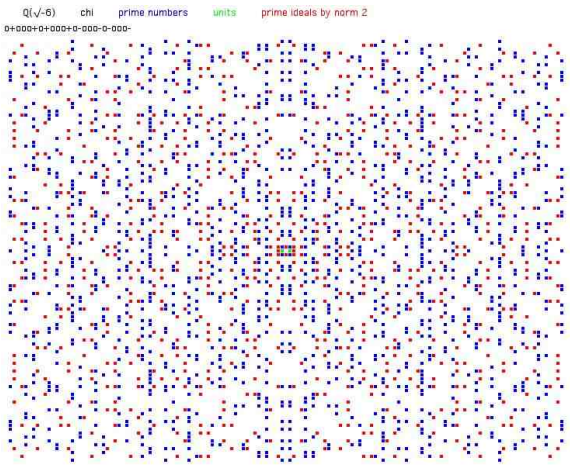
and the fields of discriminant congruent 1 modulo 4:

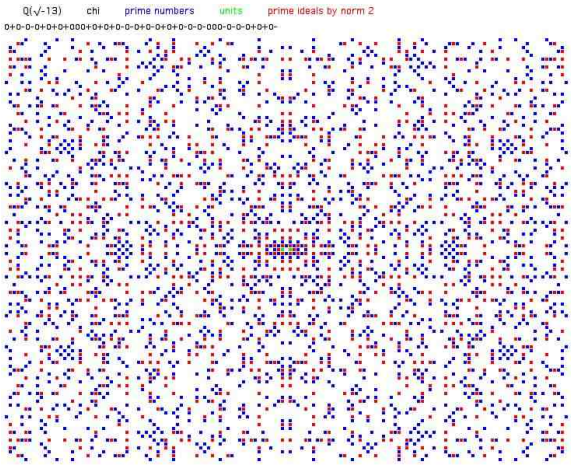
$$Q(\sqrt{-15}), Q(\sqrt{-35}), Q(\sqrt{-51}), Q(\sqrt{-91}), Q(\sqrt{-115}), Q(\sqrt{-123}), Q(\sqrt{-187}), Q(\sqrt{-235}).$$

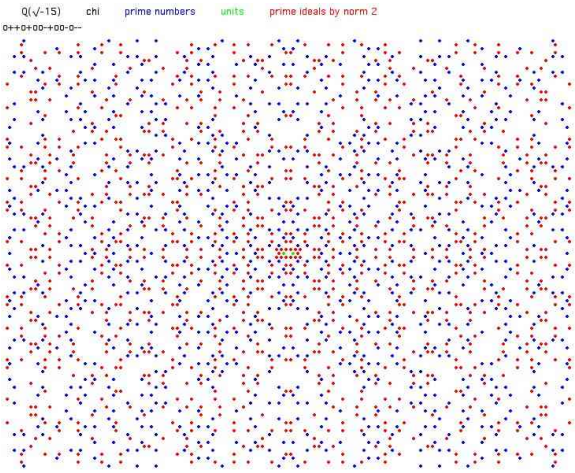
The pictures display the prime numbers, which generate the principal prime ideals, but not those irreducible numbers which are not prime.
Moreover, the non-principal prime ideals are displayed as follows.
The non-principal ideals are obtained by dividing principal ideals by a certain non-principal prime ideal, I, generated by its norm and some integer of $Q(\sqrt{r})$. In the picture, the non-principal prime ideals then are represented by those numbers whose norm is equal to a prime norm times the norm of I. This norm of I is mentioned at the top of the picture.

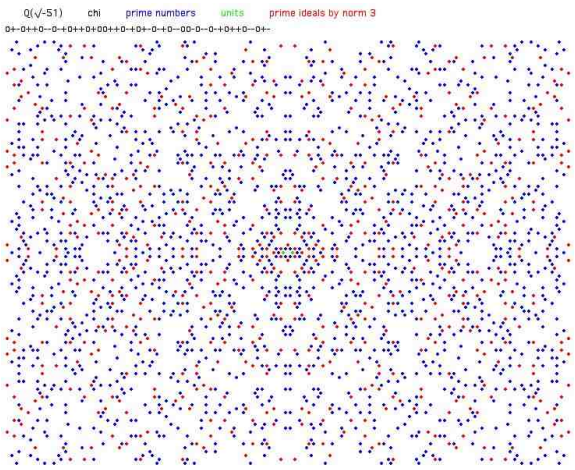


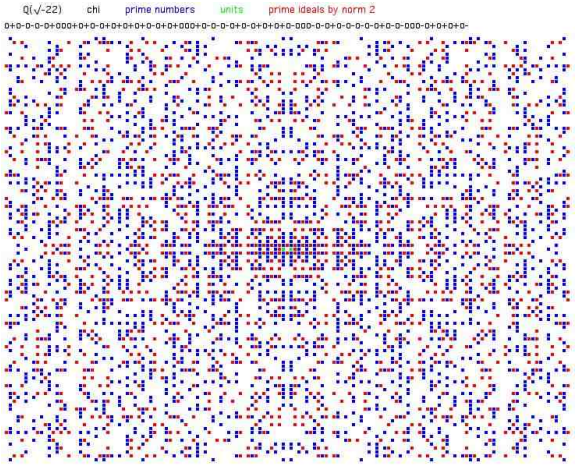


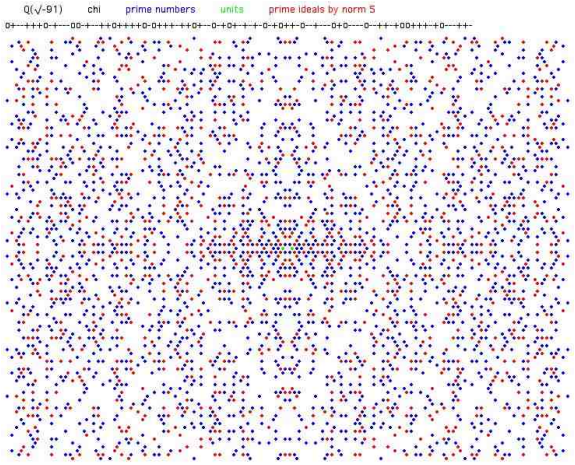


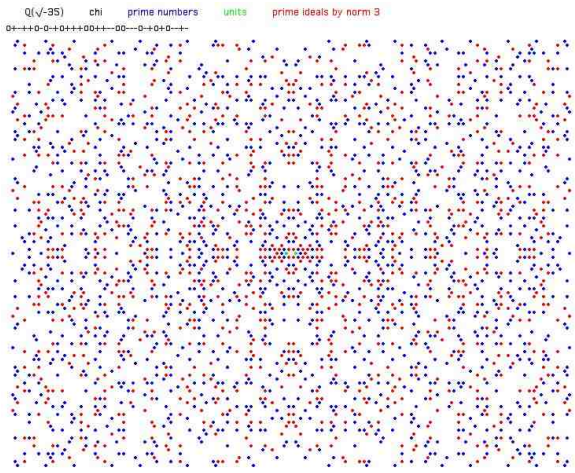


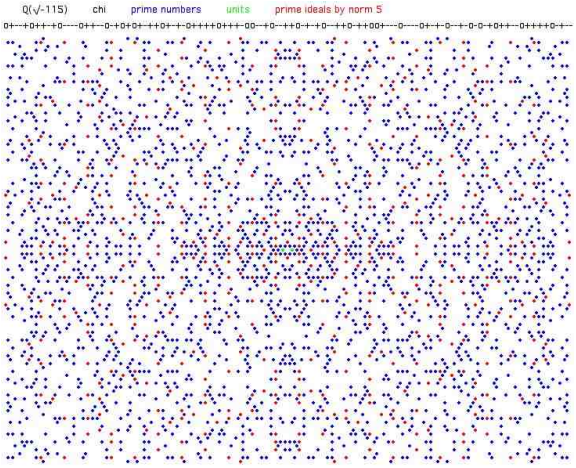

Q(√-15) chi prime numbers units prime ideals by norm 2

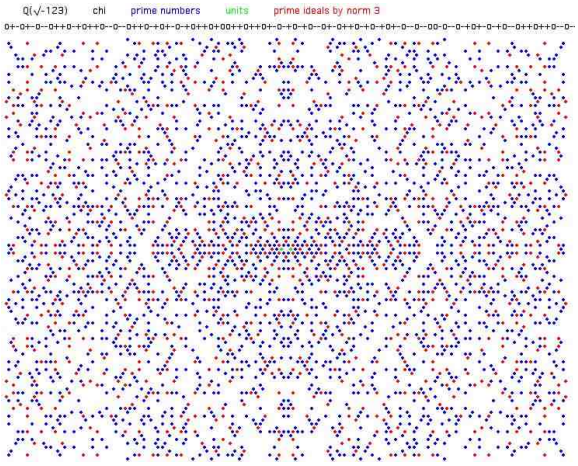

Q(√-51) chi prime numbers units prime ideals by norm 3

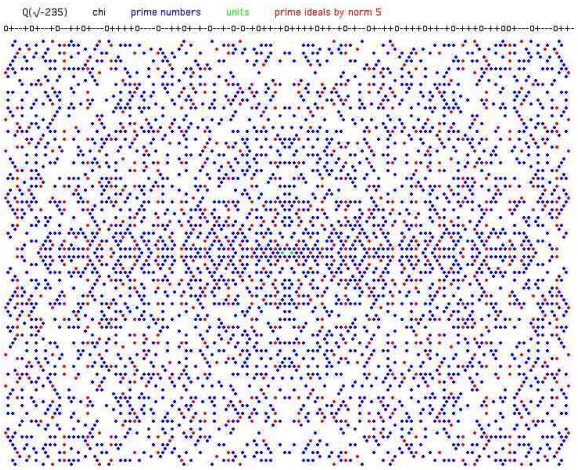

Q(√-22) chi prime numbers units prime ideals by norm 2

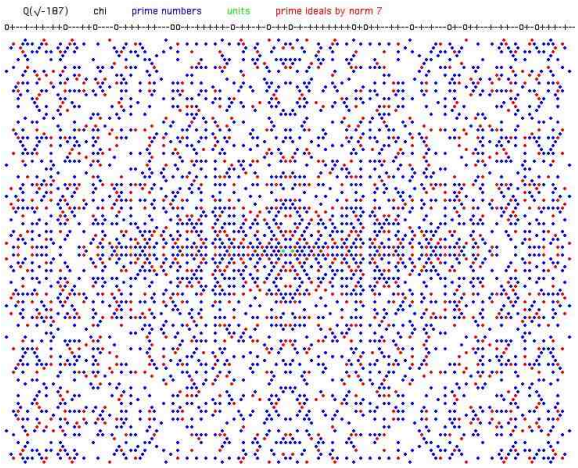

Q(√-91) chi prime numbers units prime ideals by norm 5


Q(√-35) chi prime numbers units prime ideals by norm 3


Q(√-115) chi prime numbers units prime ideals by norm 5


Q(√-123) chi prime numbers units prime ideals by norm 3


Q(√-235) chi prime numbers units prime ideals by norm 5


Q(√-187) chi prime numbers units prime ideals by norm 7