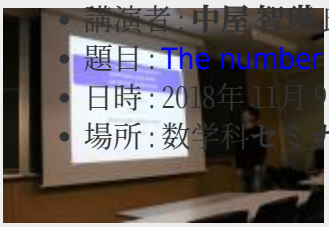
第10回 中屋 智瑛



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- 題目 : The number of linear factors of supersingular polynomials and sporadic simple groups
- 日時 : 2018年11月9日 (金) 16:30 〜 17:30
- 場所 : 数学科セミナー室（4号館3階）

seminar, 2018

abstract

The set of prime numbers p such that the supersingular j-invariants in characteristic p are all contained in the prime field is finite. And it is well known that this set of primes coincides with the set of prime divisors of the order of the Monster simple group. In this paper, we will present analogous coincidences of supersingular invariants in level 2 and 3 and the orders of the Baby monster group and the Fischer's group. The proof uses a connection between the number of supersingular invariants and class numbers of imaginary quadratic fields.

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