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On the index of a number field and some connected open questions

Let K be a number field of degree n over  $\mathbb{Q}$ , and A its ring of integers. Let  $I(K) = \gcd\{[A : Z[\alpha]]\}$ , where  $\alpha$  primitive element of A. Let p a prime and  $I_p(K)$ , be the p-adic valuation of I(K). Determining  $I_p(K)$  is still an open problem. In this talk we will report on some progress towards the computation of the prime divisors of I(K) and some other connected questions.