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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 $I(K)=\operatorname{gcd}\{[A: Z[\alpha]]\}$, 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.

