



**NOTES ON KRONECKER SYMBOL AND ITS RELATION BY FACTORING PRIMES IN QUADRATIC FIELD**

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**Abstract**

Let  $R_{\mathbb{F}}$  be the ring of integers in the quadratic field  $\mathbb{F} = \mathbb{Q}(\sqrt{m})$ . In this paper, we study factoring primes in the quadratic field  $\mathbb{F}$  and then connect this by Kronecker symbol.

**Keywords and phrases:** factoring primes, quadratic field, Kronecker symbol.