

SUCCINCT PROOFS OF PRIMALITY FOR THE FACTORS OF SOME FERMAT NUMBERS

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ABSTRACT

We give short and easily verified proofs of primality for the factors of the Fermat numbers F_5 , F_6 , F_7 and F_8 .

COMMENTS

Only the Abstract is given here. The full paper appeared as [2]. The main result is a simpler proof of primality of the larger factor of F_8 than is given in [1]. Proofs of primality of the factors of F_9 , F_{10} and F_{11} may be found in [3].

REFERENCES

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- [3] R. P. Brent, “Factorization of the tenth Fermat number”, *Math. Comp.* 68 (1999), 429–451. rpb161

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