

THE FACTORIZATION OF F_7

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Employing the continued fraction expansion of the square root of a multiple of the seventh Fermat number, $2^{2^7} + 1$, the following complete decomposition was discovered on the IBM 360/91 at UCLA:

$$340282366920938463463374607431768211457 \\ = 59649589127497217 \cdot 5704689200685129054721.$$

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