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Fibonacci Sequences in Finite Nilpotent Groups

of

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**Abstract:** We have proved that, for the 3-step Fibonacci recurrence and any finite  $p$ -group of exponent  $p$  and nilpotency class 3, the length of a fundamental period of any loop satisfying the recurrence must divide the period of the ordinary 3-step Fibonacci sequence in the field  $GF(p)$ .

 [Keywords](#)  
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