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**Title:** On the Diophantine equation  $F_{n_1} + F_{n_2} + F_{n_3} = p_1^{z_1} \cdots p_s^{z_s}$

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Let  $F_n$  denote the  $n$ -th Fibonacci number, and  $p_i$  the  $i$ -th prime number. In this paper, we consider the Diophantine equation  $F_{n_1} + F_{n_2} + F_{n_3} = p_1^{z_1} \cdots p_s^{z_s}$  in non-negative integers  $n_1 \geq n_2 \geq n_3 \geq 0$  and non-negative integers  $z_i$  with  $1 \leq i \leq s$ . In particular, we completely solve the case that  $s = 12$ .

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