Cornell University

## Mathematics > Number Theory

## A Diophantine problem with prime variables

Alessandro Languasco, Alessandro Zaccagnini

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We study the distribution of the values of the form \$Vambda_1 p_1 + Vambda_2 p_2 + Vlambda_3 p_3^k\$, where \$lambda_1\$, \$lambda_2\$ and \$lambda_3\$ are non-zero real number not all of the same sign, with \$lambda_1 / \ambda_2\$ irrational, and \$p_1\$, \$p_2\$ and \$p_3\$ are prime numbers. We prove that, when $\$ 1<k<4 / 3 \$$, these value approximate rather closely any prescribed real number.

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