Title: On the representation of an exponential type sequence

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Let $p, q > 1$ be integers with $(p, q) = 1$. In 1959, Birch proved that every sufficiently large integer n can be represented as a sum of distinct integers of the form $p^\alpha q^\beta$. In this paper, we shall prove that for any real number $\varepsilon > 0$, there is a positive real number $c = c(p, q, \varepsilon)$ such that every sufficiently large integer n can be represented as a sum of distinct integers of the form $p^\alpha q^\beta$, all of which are greater than $\dfrac{cn}{(\log n)^{1+\varepsilon}}$.

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