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The Waring-goldbach Problem for Unlike Powers

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The Waring-goldbach Problem for Unlike Powers

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Abstract In this paper, it is proved that with at most $O(N^{(\frac{65}{66})})$ exceptions, all even positive integers up to N are expressible in the form $p_2^2 + p_3^3 + p_4^4 + p_5^5$. This improves a recent result $O(N^{(\frac{19193}{19200}+\varepsilon)})$ due to C. Bauer

Key words [Waring-Goldbach problem](#) [Circle method](#) [Exceptional set](#)

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