

Liu, H. Q.; Rivat, J.

On the Pjateckii-Šapiro prime number theorem. (English) Zbl 0772.11032
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I. I. Piatetski-Shapiro [Mat. Sb., Nov. Ser. 33, 559-566 (1953; Zbl 0053.027)] proved the extraordinary result that, for any positive $c < 12/11$, the number of integers $n \leq x$ for which the integer part of n^c is prime, is asymptotically $x/c \log x$. There have been various papers which show this result for larger and larger values of c , and herein the authors show it for any $c < 15/13$, a new record.

Reviewer: [A.Granville](#) (Athens / Georgia)

MSC:

[11N05](#) Distribution of primes

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