There Is No Largest Prime Number With an introduction to a new proof technique

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27th International Symposium on Prime Numbers, –280

- 1 Results
 - Proof of the Main Theorem



There Is No Largest Prime Number

The proof uses reductio ad absurdum.

Theorem

There is no largest prime number.

Proof.

- **1** Suppose *p* were the largest prime number.
- 2 Let *q* be the product of the first *p* numbers.
- Then q+1 is not divisible by any of them.
- 4 Thus q + 1 is also prime and greater than p.