Alma Mater Studiorum · Universitá di Bologna

School of Science Department of Physics and Astronomy Master Degree in Physics

Unibo Thesis Example

There is No Largest Prime Number

Applicant

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There is No Largest Prime Number

The proof uses reductio ad absurdum

Theorem

There is no largest prime number.

• Suppose p were the largest prime number.

3 But q + 1 is greater than 1, thus divisible by some prime number not in the first p numbers.

There is No Largest Prime Number

The proof uses reductio ad absurdum

Theorem

There is no largest prime number.

- Suppose p were the largest prime number.
- 2 Let q be the product of the first p numbers.
- But q + 1 is greater than 1, thus divisible by some prime number not in the first p numbers.

There is No Largest Prime Number

The proof uses reductio ad absurdum

Theorem

There is no largest prime number.

- Suppose *p* were the largest prime number.
- 2 Let q be the product of the first p numbers.
- **1** Then q + 1 is not divisible by any of them.
- **3** But q + 1 is greater than 1, thus divisible by some prime number not in the first p numbers.

A title

And a Subtitle

- one
- two

Only an image of a Gaussian

