Riemann Hypotheses

Alex J. Best

WMS Talks

4/2/2014

In this talk:

A brief history:

The Riemann zeta function

A brief history:

- In ???? Euler found that

$$\sum_{n=1}^{\infty} \frac{1}{n^2} = \frac{\pi^2}{6}.$$

A brief history:

- In ???? Euler found that

$$\sum_{n=1}^{\infty} \frac{1}{n^2} = \frac{\pi^2}{6}.$$

- He also discovered formulae for $\sum_{n=1}^{\infty} n^{-2k}$ in terms of the Bernoulli numbers B_{2k} for all natural k.

A brief history:

- In ???? Euler found that

$$\sum_{n=1}^{\infty} \frac{1}{n^2} = \frac{\pi^2}{6}.$$

- He also discovered formulae for $\sum_{n=1}^{\infty} n^{-2k}$ in terms of the Bernoulli numbers B_{2k} for all natural k.

- odd still unkown today?

The Riemann zeta function

A brief history:

The Dedekind zeta function

Dedekind wanted to use the