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Riemann zeta function,
and strange sums

Zeta function values in
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Numbers And Zeta

The main one is the theory of Bernoulli numbers and the other is the theory of zeta functions. Historically, Bernoulli numbers were introduced to give formulas for the sums of powers of consecutive integers.

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Bernoulli numbers are the coefficients of the

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formula of a sum of powers of natural numbers. For example, a formula of a sum of natural numbers can be expressed by two Bernoulli numbers.

Zeta function can be expressed by these Bernoulli numbers.

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The material presented

at this link on Zeta

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function values at even

integers proposes a

method to compute

these that is based on

Euler's work. I would

like to present a short

proof for your ... Zeta

function values in

terms of Bernoulli

numbers. Ask Question

... For the exponential

generating function of

the Bernoulli numbers

we have

Bernoulli Numbers and

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As its title indicates, the book under review is about Bernoulli numbers and zeta functions. Several properties and generalizations of Bernoulli numbers, and various relations to the Riemann zeta function and some other zeta functions are discussed.

Bernoulli number -
Wikipedia

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function which connects poly-Bernoulli numbers with the so-called multiple zeta values, the subject of wide interest not only in number theory but also in numerous other branches such as topology, quantum groups, arithmetic geometry, mathematical physics etc.

Poly-Bernoulli numbers and related zeta

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The Bernoulli numbers are a set of numbers that were discovered by Jacob Bernoulli (1654-1705). This set of numbers holds a deep relationship with the Riemann zeta function. The Riemann zeta function has been found to have a relationship with prime numbers. The Bernoulli numbers have also been found to be useful for proofs of a

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WHAT ARE THE BERNOULLI NUMBERS?

MULTIPLE ZETA
VALUES, POLY-
BERNOULLI NUMBERS,
AND RELATED ZETA

FUNCTIONS TSUNEO

ARAKAWA and

MASANOBU KANEKO

Abstract. We study the

function $(k_1, \dots, k_n; s)$

$= \sum_{0 < m_1 < m_2 < \dots < m_n} \frac{1}{m_1^{k_1} m_2^{k_2} \dots m_n^{k_n}}$

$1 < m_n \leq m_{n-1} \leq \dots \leq m_1 \leq n$

$1 \leq m \leq s$ and show that

the poly-Bernoulli

numbers introduced in

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our previous paper are expressed as special values at negative arguments of certain ...

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The Bernoulli Number

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coefficients, yields surprising results on the zeta function. 1.

Introduction Bernoulli numbers first appeared in a posthumous publication of Jakob Bernoulli (1654-1705) in 1713, and were independently

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Bernoulli Number --
from Wolfram

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The Bernoulli numbers appear in the Taylor series expansions of the tangent and hyperbolic tangent functions, in

Faulhaber's formula for the sum of powers of the first positive

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integers, in the Euler-Maclaurin formula, and in expressions for certain values of the Riemann zeta function. The Bernoulli numbers were discovered around the same time by the Swiss mathematician Jacob Bernoulli, after whom they are named, and independently by Japanese mathematician Seki Kōwa.

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Bernoulli polynomials -
Wikipedia

CalcBn V3.0 is a multi-threaded program for computing the Bernoulli numbers via the Riemann zeta function. It uses special optimizations such that the main part of calculation can be performed by integer arithmetic.

Bernoulli Numbers and
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Zeta function and Bernoulli numbers - Mysterious World of ...

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Function B Sury

Introduction B Sury is
with the Indian

Statistical Institute. He
introduces this article

by: Bernoulli troy

stunned us with his

numb-er; woke us up

from a deep and

ignorant slumber. Its

relation with Riemann

zeta makes us think

nothing could be

heater.

Bernoulli Numbers and


Zeta Functions I

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The formula relating the zeta function and Bernoulli tells us a couple things about the Bernoulli numbers. First, for $n \geq 1$ the Bernoulli numbers with index $2n$ alternate sign. Second, by looking at the sum defining $\zeta(2n)$ we can see that it is approximately 1 for large n .

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Bernoulli numbers and the riemann zeta function

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The main one is the theory of Bernoulli numbers and the other is the theory of zeta functions. Historically, Bernoulli numbers were introduced to give formulas for the sums of powers of consecutive integers.

Bernoulli Numbers and their Applications

In mathematics, the Bernoulli polynomials, named after Jacob Bernoulli, occur in the

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study of many special functions and, in particular the Riemann zeta function and the Hurwitz zeta function.

This is in large part because they are an Appell sequence (i.e. a Sheffer sequence for the ordinary derivative operator).

Bernoulli Numbers And Zeta Functions

The main one is the theory of Bernoulli

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numbers and the other
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functions. Historically,
Bernoulli numbers
were introduced to
give formulas for the
sums of powers of
consecutive integers.

Appendix Curious and
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Bernoulli Numbers

The Bernoulli numbers
 B_n are a sequence of
signed rational
numbers that can be
defined by the

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exponential generating function $x/(e^x-1)=\sum_{n=0}^{\infty}(B_n x^n)/(n!)$. (1) These

numbers arise in the series expansions of trigonometric

functions, and are extremely important in number theory and analysis. There are actually two definitions for the Bernoulli numbers.

Bernoulli numbers.

Riemann zeta function.

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Numbers And Zeta
and strange sums

Bernoulli numbers, which are ubiquitous in mathematics, typically appear either as the Taylor coefficients of $x = \tan x$ or else, very closely related to this, as special values of the Riemann zeta function.

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