THE NUMERICAL PHENOMENA REGARDING RH

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THE MAIN IDEA

- The idea is to use the Residue theorem to discover the location of singularities for $\frac{1}{\eta(s)}$, where $\eta(s) = (1 - 2^{1-s})\zeta(s) = \sum_{k=1}^{\infty} \frac{(-1)^{k+1}}{k^s}$
- This series is convergent on the critical strip!

ISOMORPHISM

- $\varphi(s) = \frac{\ln(s)}{i666\pi} + 0.75$
- Logarithm maps the unit disk to the strip $\{Re(s) < 0, Im(s) \in (-\pi, \pi)\}$
- We scale this strip by $\frac{1}{666\pi}$ and rotate it 90 degrees clockwise by multiplying by -i
- We move this thin vertical strip to the point 0.75

IF THE RIEMANN HYPOTHESIS IS TRUE

- Then $\eta(\varphi(s))$ has got no zeroes on the unit disc except, possibly, 0, which is mapped to infinity
- $\frac{1}{\eta(\varphi(s))}$ has got no singularities on the unit disc except, possibly, 0, which is mapped to infinity
- Then by the Residue theorem:

•
$$\int_{|z|=1} \frac{1}{\eta(\varphi(z))} dz = \int_{|z|=r} \frac{1}{\eta(\varphi(z))} dz$$
, $0 < r < 1$

PARAMETERIZATION OF INTEGRALS

•
$$\int_{|z|=r} \frac{1}{\eta(\varphi(z))} dz = \left| z = re^{it} \right| = \int_{-\pi}^{\pi} \frac{ire^{it}dt}{\eta(\varphi(re^{it}))}$$

• We expect:
$$\int_{-\pi}^{\pi} \frac{ie^{it}dt}{\eta(\varphi(e^{it}))} - \int_{-\pi}^{\pi} \frac{ire^{it}dt}{\eta(\varphi(re^{it}))} = 0$$

• Let us check it numerically!

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14 [def integrand1(<u>t1</u> , <u>t2</u> , <u>r</u> , <u>t</u> , <u>1</u>):	
$11 \qquad s = r * np.exp(1) * (r * (r2 - r1) + r1))$	
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THE CODE REALIZATION 2

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THE ATTEMPTS TO PROVE RH. JEFF N. COOK 1

Lemma 1

Given the Riemann oscillator

$$\zeta_s(t) = \frac{d^2c_s}{dt^2} + 2\upsilon(s)\omega_s\frac{dc_s}{dt} + \omega_s^2c_s, \quad s \neq 1,$$

where $c_s(t)$, ω_s , and v(s) are defined as follows:

$$c_s(t) = \frac{e^{(s-1)t}}{(s-1)^3}, \quad s \neq 1,$$
$$\omega_s = i\overline{s},$$

$$v(s) = \frac{i(2\overline{s}^2 + (s-1)^3)}{4(s-1)\overline{s}} - \frac{(s-1)^2}{2\overline{s}} \int_0^\infty \frac{(1-it)^s - (1+it)^s}{(t^2+1)^s (e^{2\pi t} - 1)} dt, \quad s \neq 1$$

THE ATTEMPTS TO PROVE RH. JEFF N. COOK 2

$$\zeta_s(t) := \frac{d^2 c_s}{dt^2} + 2\upsilon(s)\omega_s \frac{dc_s}{dt} + \omega_s^2 c_s, \quad s \neq 1.$$
(17)

Given the form of the Riemann oscillator, it is possible to think of v(s) as playing a role analogous to the damping ratio in a harmonic oscillator, as it determines the behavior of the Riemann oscillator. However, it is important to note that the Riemann oscillator is a purely mathematical model and does not have a physical interpretation. As such, it is not a direct analogy, but rather a mathematical concept that can be used to study the properties of the Riemann zeta function. Likewise, it is possible to think of $\alpha(s)$ playing a role analogous to the decay rate, [4] and ω_s can be thought of as a frequency parameter. In a harmonic oscillator, the frequency is a real number that describes the number of oscillations per unit time. In the Riemann oscillator, the frequency is a complex number, which means that the oscillator is not oscillating in a simple sinusoidal pattern. Instead, the oscillator is behaving in a more complicated way that depends on both the real and imaginary parts of ω_s .

Now that the Riemann oscillator has been defined independently of the Riemann zeta function in a way that eliminates any assumptions in the definition, one can prove Lemma 1. Evaluate the Riemann oscillator at t = 0. At t = 0, equation (17) reduces to

$$\zeta_s(0) = \frac{1}{s-1} - \frac{2i\overline{s}\upsilon(s)}{(s-1)^2} - \frac{(\overline{s})^2}{(s-1)^3}.$$
(18)

Considering the explicit form of u(s) in (14) the Diemonn oscillator reduces to

THE ATTEMPTS TO PROVE RH. ARIC B. CANNANIE 1

Riemann's Last Theorem $\Re(s) \neq \frac{1}{2} \Leftrightarrow \zeta(s) \neq 0 \quad 0 < \Re(s) < 1$ $\zeta(s) = \sum_{n=1}^{b} \left(\frac{1}{n^{s}}\right) - \frac{b^{1-s}}{1-s} - s \int_{b}^{\infty} \frac{x - [x]}{x^{s+1}} dx , b \in \mathbb{N}$ $\zeta(1-s) = \sum_{n=1}^{b} \left(\frac{1}{n^{1-s}}\right) - \frac{b^{s}}{s} - (1-s) \int_{b}^{\infty} \frac{x - [x]}{x^{2-s}} dx , b \in \mathbb{N}$ $\sum_{n=1}^{b} \left(\frac{1}{n^{s-s}}\right) - s \int_{b}^{\infty} \frac{x - [x]}{x^{s+1}} dx = \frac{b^{1-s}}{1-s} - \frac{b^{s}}{s} - (1-s) \int_{b}^{\infty} \frac{x - [x]}{x^{2-s}} dx$ $\bigotimes \sum_{n=1}^{b} \left(\frac{1}{n^{s}}\right) - \sum_{n=1}^{\infty} \left(\frac{1}{n^{1-s}}\right) - 0 = \lim_{b \to \infty} \left(\frac{b^{1-s}}{1-s} - \frac{b^{s}}{s}\right) - 0$

THE ATTEMPTS TO PROVE RH. ARIC B. CANNANIE 2

- The key statement is so-called "Super Symmetric Equation":
- $\zeta(s) \zeta(1 \bar{s}) = 0 \Leftrightarrow \sum_{n=1}^{\infty} \frac{1}{n^s} \sum_{n=1}^{\infty} \frac{1}{n^{1-\bar{s}}} = 0, Re(s) \in (0, 1)$

THE ATTEMPTS TO PROVE RH. ARIC B. CANNANIE 3

- Why it could make sense?
- Define $F(u, w, z) \coloneqq \sum_{n=1}^{\infty} \frac{1}{n^{u+w}} \sum_{n=1}^{\infty} \frac{1}{n^{u+z}}$
- It coincides with $\zeta(u+w) \zeta(u+z)$ on the domain $Re \ u > 2$, $Re \ w \in (0,1)$, $Re \ z \in (0,1)$, which is an open set.
- Thus, $\zeta(u+w) \zeta(u+z)$ is a.c. of F
- Substitute $u = 0, w = s, z = 1 \overline{s}$

BUT IT HAS NOTHING TO DO WITH PASSING TO THE LIMIT! 1

Lemma 4. Let s be a non-trivial zero of Riemann zeta-function. Then SSE $\implies \Re(s) = \frac{1}{3}$.

By the Lemma 1 we obtain the following.

$$\zeta(s) = \sum_{n=1}^{8k^3} \frac{1}{n^s} - \frac{(8k^3)^{1-s}}{1-s} + o(1), \tag{2}$$

$$\zeta(1-\bar{s}) = \sum_{n=1}^{8k^{\circ}} \frac{1}{n^{(1-\bar{s})}} - \frac{(8k^{\circ})^{\bar{s}}}{\bar{s}} + o(1).$$
(3)

We note that $\{8k^3 | k \ge 1\}$ and $\{8k^6 | k \ge 1\}$ are the subsequences of the sequence of positive integers such that $\lim_{k\to\infty} 8k^3 = \infty \wedge \lim_{k\to\infty} 8k^6 = \infty$. Therefore, we are able to use Lemma 2 and obtain

$$\lim_{k \to \infty} \sum_{n=1}^{8k^3} \frac{1}{n^s} = \sum_{n=1}^{\infty} \frac{1}{n^s} \wedge \lim_{k \to \infty} \sum_{n=1}^{8k^6} \frac{1}{n^s} = \sum_{n=1}^{\infty} \frac{1}{n^s} \implies \lim_{k \to \infty} \sum_{n=1}^{8k^3} \frac{1}{n^s} = \lim_{k \to \infty} \sum_{n=1}^{8k^6} \frac{1}{n^s} = \lim_{k \to \infty} \sum_{n=1}^{\infty} \frac{1}{n^s}.$$

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BUT IT HAS NOTHING TO DO WITH PASSING TO THE LIMIT! 2

Subtract (3) from (2) and obtain the following with respect to Lemma 2 after taking the limit as $k \to \infty$.

$$\zeta(s) - \zeta(1 - \bar{s}) = \sum_{n=1}^{\infty} \frac{1}{n^s} - \sum_{n=1}^{\infty} \frac{1}{n^{(1-\bar{s})}} + \lim_{k \to \infty} \left(\frac{(8k^6)^{\bar{s}}}{\bar{s}} - \frac{(8k^3)^{1-s}}{1-s}\right).$$
(4)

If s is a non-trivial zero of Riemann zeta-function, we obtain the following with respect to SSE from (4).

$$\lim_{k \to \infty} \left(\frac{8^{\tilde{s}} k^{6\tilde{s}}}{\tilde{s}} - \frac{8^{1-s} k^{3(1-s)}}{1-s} \right) = 0.$$
 (5)

Now we use the trick, which is given while deriving (15) in https://www.Obq. com/arslt. For the limit of this difference to be equal to zero one should have the same order of those terms, i.e., the real part of the degrees of k should be the same as $\forall z \in \mathbb{C} |e^z| = e^{\Re(z)}$ as otherwise one of the terms blows up. Therefore, we obtain

$$6\Re(s) = 3(1 - \Re(s)) \iff 2\Re(s) = 1 - \Re(s) \iff \Re(s) = \frac{1}{3}$$

Thus, the proof is complete. Now for convenience we check the identity (5) for $s = \frac{1}{2}$. We obtain

$$\lim_{k \to \infty} \left(\frac{8^{\frac{1}{3}} k^{6\frac{1}{3}}}{\frac{1}{3}} - \frac{8^{1-\frac{1}{3}} k^{3(1-\frac{1}{3})}}{1-\frac{1}{3}} \right) = \lim_{k \to \infty} (6k^2 - 6k^2) = 0.$$

Now we shall show that the only possibility for SSE to be correct is the complete absence of non-trivial zeroes of Riemann zeta-function.

WHY THE DIFFERENCE OF SERIES DIVERGE EVEN FOR RE(S)=0.5



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Input Interpretation						
$\sum_{n=1}^{666^5} \frac{1}{\sqrt{n}} - \sum_{n=1}^{\infty} \frac{666^5}{\sqrt{n^2 + 666^5 n}} \left(\sqrt{n} + \sqrt{n + 666^5 n}\right)^{-1} $	6665)	\$				
Result						
-1.63913×10^{-7}		\$				
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S POWERED BY THE WOLFRAM LANGUAGE						
Related Queries:						
plot 1/sqrt(n)						
(integrate 1/sqrt(n) from n = 1 to xi) / (sum 1/sqrt(1) from n = 1 t	o xi) =				
oil painting effect image Ernst E. Kummer		=				
integrate 1/sqrt(n)		=				
• •						

HE MEANS IT!



WHAT DID I ACHIEVE?



riemanns.last.theorem... 28. 1. komu: já ~



Přeložit do: čeština

You're acting irrationally! You're exhibiting the most shameless behavior I've ever witnessed. People are mocking me for engaging with you. It's embarrassing to even converse with you! As I've said before, and I can repeat it a hundred times more, you're an intellectually devoid parrot.

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THANKS FOR WATCHING!

- And remember:
- The best is yet to come!