

Peer Review and the Mathematical Process

Over ten years ago, the mathematician behind 素数誕生のメカニズム (stylized here as Kansūron), known on X as @art32pazuru, attempted to bring forward a new mathematical formula for public review and evaluation. He believed that this construct represented not merely a reframing of classical results, but a new process and method capable of establishing the truth of the Riemann Hypothesis line.

$$e^{i\pi/n} = \cos\left(\frac{\pi}{n}\right) + i \sin\left(\frac{\pi}{n}\right), \quad n \in \mathbb{N}.$$

His attempts to engage Japanese mathematical peer-review venues were repeatedly dismissed. The feedback he received emphasized that the formula, in and of itself, did not constitute a proof of the RH line. Rather, it was described as a re-expression of Euler's sieve and therefore not novel in the required sense.

In response, he decided to self-publish his findings, releasing them in a book in Japan.¹ Alongside this, he founded an online mathematical blog where he systematically restated and expanded upon his claim that his method established the RH line as true. Over time, he also adopted social media—particularly Twitter (now X)—as an outlet, where he has reiterated his formula thousands upon thousands of times.

The scale of this effort is remarkable. His account has produced more than 102,000 posts, all revolving around the same core formula and its implications. For over a decade, he has sought dialogue with the mathematical community, across all sectors and nations, and yet has consistently found that his efforts have been met with silence or rejection. Despite this, the formula itself has been openly accessible in the public domain for ten years, available for anyone to test, analyze, or build upon.

Recent Developments and Independent Testing

Recently an independent investigator named Dean Hedges decided to test this claim and engaged with ChatGPT to discuss and measure the mathematical formula and the surrounding blog. It took about two weeks to hone in and find the traditional route of proving the RH line as being true. As of this writing, the traditional route has crossed several milestones and is currently on track to being a verifiable method. The major breakthrough was discovering a geometric centering of the RH line, which then allowed the equation to be analytically tested.

¹ 『素数と魔方陣』—translated to English: *Prime Numbers and Magic Squares, Fractals & Topology: A Mathematics Book that Opens the Door to Next-Generation Geometry with Suga Number Theory of the Big Bang Universe*. Available at: <https://www.creema.jp/item/5074195/detail>.

10 Years of Open and Public Availability of the Formula

It is well established that mathematicians have no control over where and when their discoveries are used by industry. Sometimes math has been weaponized and sometimes it has created new world views. It is not up to the mathematician to decide how and when discoveries will be used by nations or industry. The use of the math is the sole responsibility of those who use it. It has been 10 years that this new formula has been in circulation, and most likely it will affect both nations and industries very soon.

In Conclusion

The history of this formula demonstrates both the difficulty and the resilience of mathematical discovery. Over a decade ago, a lone mathematician in Japan proposed a formula that he believed would shed new light on the Riemann Hypothesis line. His work was dismissed, yet he persisted—publishing, blogging, and repeating his formula across the public sphere until it became a fixture of open mathematical discourse.

More recently, an independent investigation tested this claim with the aid of modern AI collaboration, revealing that a traditional route toward verifying the RH line may indeed exist. This path, strengthened by a geometric centering of the line, suggests that analytic confirmation is not only possible but closer than once imagined.

The lesson is twofold. First, mathematics is not confined to the academy: it is a human endeavor that can emerge from individuals, persist in the public domain, and evolve when others take up the challenge. Second, once released, mathematics takes on a life of its own. Its application—whether toward knowledge, technology, or industry—lies beyond the mathematician's control.

The formula has now been openly available for more than ten years. Whether or not it becomes a cornerstone in proving the Riemann Hypothesis, its presence has already influenced dialogue and inspired renewed effort. In this sense, the process itself—persistence, testing, and eventual recognition—reflects the enduring spirit of mathematics as a search for truth that belongs to all.

Notice & Responsible Use. *The equation and reasoning discussed here have been publicly accessible for more than a decade. The authors neither control nor direct any third-party implementation or application. Any use is undertaken at the user's own risk and responsibility, and must comply with applicable laws and professional norms.*