【Review article】

ζ(3)

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【Abstract】

ζ(3) was obtained by another method.

$$\zeta(3) = \frac{-17.74063 + \pi^3 log(4)}{21}$$

\begin{equation}
\zeta(3) =\frac{-17.74063+\pi^3 log(4)}{21}=
\end{equation}
and

$$\zeta(3) = \frac{11.5610 + \pi^2 \log(4)}{21}$$

\begin{equation}
\zeta(3) =\frac{11.5610 +\pi^2\log(4)}{21}
\end{equation}

【discussion】

$$\sum_{k=1}^{\infty} \frac{1}{k^2 \times 2^{k-1}} + \log^2(2)$$

\sum_{k=1}^\infty \frac{1}{k^2*2^(k-1)}+(log2)^2

= π ^2/6 = ζ (2)

$$\sum_{k=1}^{\infty} \frac{1}{k^3 \times 2^{k-1}} + \log^3(2)$$

\sum_{k=1}^\infty \frac{1}{k^3*2^(k-1)}+(log2)^3 =≈1.40745

$$\frac{1}{12}\left(21\,\zeta(3) + 4\log^3(2) - \pi^2\log(4)\right) + \log^3(2) \approx 1.40745$$

(1/12)*{[(21 ζ (3) + 4*log^3(2)-pi^3*[log(4)] }+ [log(2)]^3=
(1/12)*[21*zeta(3) + 4* log^3(2) -pi^3* log(4))]+ [log(2)]^3=-1.034353093587370877386204201238495898424637501284720 95...

(1/12)*[21*zeta(3) + 4* log^3(2) -pi^3 log(4))]
=-1.367377745576300357105057783850226442580763986633327 60...
=-1.367378
[21*zeta(3) + 4* log^3(2) -pi^3 log(4))]=-1.367378*12
zeta(3) =[-1.367378*12- 4* log^3(2) +pi^3 log(4)]/21=1.202057...
zeta(3) =[-17.74063+pi^3 log(4)]/21=1.202057...

$$\zeta(3) = \frac{-17.74063 + \pi^3 log(4)}{21}$$

zeta(3)= 1.2020569031595942853997…..

zeta(3) =[{=[{-1.034353-[log(2)]^3}*12-4*log^3(2)+pi^3*log(4))]*(1/21)=-[log(2)]^3}*12-4*log^3(2)+pi^2 log(4))]*(1/21)=1.202056903160……

$\left(1.40745 - \log^3(2)\right) \times 12 - 4\log^3(2)$ =zeta(3)

zeta(3) =[11.5610+pi^2*log(4)]*(1/21)=1.202056903160……

$\left(11.5610 + \pi^2\log(4)\right) \times \frac{1}{21}$ =zeta(3)

$$\zeta(3) = \frac{11.5610 + \pi^2 \log(4)}{21}$$

References

1) https://en.wikipedia.org/wiki/Riemann_hypothesis

postscript

I use wolframAlpha.

☃～☃～☃～☃～☃～

I am a psychiatrist now and also a doctor of brain surgery before.

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I would like to receive an email. I will not answer the phone.

Currently 57 years old
Born on November 26, 1961
（I am very poor of English. Almost all document are google-translation.）
When converted to English by Google translation, it becomes cryptic to me.
But, I read letter by google translation.
In my case, if you translate it into English by google translation, I do not know what is written in my paper. For me, foreign languages such as English (actually not good at Japanese) is a demon.
As soon as it is translated into English, it turns.