The Euler Product Formula derived from the Sum of the Power of Primes

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Abstract: Relate the sum of powers of multiple primes to the sum of powers of natural numbers.

Key words: Euler product formula, Riemann conjecture.

If I hadn't calculated the sum of the products of different prime powers, I'm afraid I would never have anything to do with Euler, because knowing how magic works, it would be very simple.

$$\forall m,n,k,d,n_k \in \textbf{N} \text{ , } \forall p \text{ ,} p_k \text{ , } \in \text{prime numbers , } \forall p^n = \frac{p^n-1}{1-p^{-n}} \text{ , } \forall \prod_{k=0}^{\infty} p_k^{\ n} = \prod_{k=0}^{\infty} \frac{p_k^{\ n}-1}{1-p_k^{\ -n}},$$

The reciprocal of the divisor of $\forall p^n$, Such as , p^0 , p^{-1} , p^{-2} , p^{-3} , p^{-4} , p^{-n}

The reciprocal sum of the divisor of $\forall p^n$, $S_{-n} = \sum_{m=0}^n p^{-m} = \frac{p^{-n-1}-p^0}{p^{-1}-1} = \frac{p^{n+1}-p^0}{p^n(p^1-1)}$

$$\Rightarrow \forall p^n = \frac{s_n}{s_{-n}} = \frac{\sum_{m=0}^n p^m}{\sum_{n=0}^m p^{-m}} = \frac{p^n - p^0}{p^{1-1}} / \frac{p^{-n-1} - p^0}{p^{-1} - 1} \text{, } \\ \prod_{k=0}^\infty p_k^{\ n} = \prod_{k=0}^\infty \frac{\sum_{m=0}^n p_k^m}{\sum_{n=0}^m p_k^{-m}} = \prod_{k=0}^\infty (\frac{p_k^n - p_k^0}{p_k^{1-1}}) / \frac{p_k^{-n-1} - p_k^0}{p_k^{-1} - 1}) \text{ , } \\ \prod_{k=0}^\infty p_k^{\ n} = \prod_{k=0}^\infty \frac{p_k^n}{p_k^{n-1}} + \prod_{k=0}$$

$$\left(\sum_{m=0}^2 2^m\right) = 1 + 2 + 4 \; , \; \left(\sum_{m=0}^2 2^m\right) * \left(\sum_{m=0}^2 3^m\right) = 1 + 2 + 3 + 4 + 6 + 9 + 12 + 18 + 36 \; ,$$

$$36 + 45 + 50 + 60 + 75 + 80 + 100 + 150 + 180 + 225 + 300 + 450 + 900$$
,

$$n \to \infty \; , \quad \Rightarrow \prod_{k=0}^{\infty} {p_k}^n = \prod_{k=0}^{\infty} (\frac{p_k^n - p_k^0}{p_k^{1-1}} / \frac{p_k^{-n-1} - p_k^0}{p_k^{-1}-1}) = \frac{\sum_{d=1}^{\infty} d^{\pm 1}}{\sum_{d=1}^{\infty} d^{-1}} \; , \; \; \sum_{d=1}^{\infty} d^{\pm 1} = \prod_{k=0}^{\infty} \frac{p_k^{\pm (n+1)} - p_k^0}{p_k^{\pm 1}-1} \; , \; \; \sum_{d=1}^{\infty} d^{\pm 1} = \prod_{k=0}^{\infty} \frac{p_k^{\pm (n+1)} - p_k^0}{p_k^{\pm 1}-1} \; , \; \; \sum_{d=1}^{\infty} d^{\pm 1} = \prod_{k=0}^{\infty} \frac{p_k^{\pm (n+1)} - p_k^0}{p_k^{\pm 1}-1} \; , \; \; \sum_{d=1}^{\infty} d^{\pm 1} = \prod_{k=0}^{\infty} \frac{p_k^{\pm (n+1)} - p_k^0}{p_k^{\pm 1}-1} \; , \; \; \sum_{d=1}^{\infty} d^{\pm 1} = \prod_{k=0}^{\infty} \frac{p_k^{\pm (n+1)} - p_k^0}{p_k^{\pm 1}-1} \; , \; \; \sum_{d=1}^{\infty} d^{\pm 1} = \prod_{k=0}^{\infty} \frac{p_k^{\pm (n+1)} - p_k^0}{p_k^{\pm 1}-1} \; , \; \; \sum_{d=1}^{\infty} d^{\pm 1} = \prod_{k=0}^{\infty} \frac{p_k^{\pm (n+1)} - p_k^0}{p_k^{\pm 1}-1} \; , \; \; \sum_{d=1}^{\infty} d^{\pm 1} = \prod_{k=0}^{\infty} \frac{p_k^{\pm (n+1)} - p_k^0}{p_k^{\pm 1}-1} \; , \; \; \sum_{d=1}^{\infty} d^{\pm 1} = \prod_{k=0}^{\infty} \frac{p_k^{\pm (n+1)} - p_k^0}{p_k^{\pm 1}-1} \; , \; \; \sum_{d=1}^{\infty} d^{\pm 1} = \prod_{k=0}^{\infty} \frac{p_k^{\pm (n+1)} - p_k^0}{p_k^{\pm 1}-1} \; , \; \; \sum_{d=1}^{\infty} d^{\pm 1} = \prod_{k=0}^{\infty} \frac{p_k^{\pm (n+1)} - p_k^0}{p_k^{\pm 1}-1} \; , \; \; \sum_{d=1}^{\infty} d^{\pm 1} = \prod_{k=0}^{\infty} \frac{p_k^{\pm (n+1)} - p_k^0}{p_k^{\pm 1}-1} \; , \; \; \sum_{d=1}^{\infty} d^{\pm 1} = \prod_{k=0}^{\infty} \frac{p_k^{\pm (n+1)} - p_k^0}{p_k^{\pm 1}-1} \; , \; \; \sum_{d=1}^{\infty} d^{\pm 1} = \prod_{k=0}^{\infty} \frac{p_k^{\pm (n+1)} - p_k^0}{p_k^{\pm 1}-1} \; , \; \; \sum_{d=1}^{\infty} d^{\pm 1} = \prod_{k=0}^{\infty} \frac{p_k^{\pm (n+1)} - p_k^0}{p_k^{\pm 1}-1} \; , \; \; \sum_{d=1}^{\infty} d^{\pm 1} = \prod_{k=0}^{\infty} \frac{p_k^{\pm 1} - p_k^0}{p_k^{\pm 1}-1} \; , \; \; \sum_{d=1}^{\infty} d^{\pm 1} = \prod_{k=0}^{\infty} \frac{p_k^0}{p_k^{\pm 1}-1} \; , \; \; \sum_{d=1}^{\infty} d^{\pm 1} = \prod_{k=0}^{\infty} \frac{p_k^0}{p_k^{\pm 1}-1} \; , \; \; \sum_{d=1}^{\infty} d^{\pm 1} = \prod_{k=0}^{\infty} \frac{p_k^0}{p_k^0} \; , \; \; \sum_{d=1}^{\infty} \frac{p_k^0}{p_k^0} \; , \; \sum_{d=1}^{\infty} \frac{p_k^0}{p_k^0} \; , \; \; \sum_{d=1}^{\infty} \frac{p_k^0}{p_k^0} \; , \; \; \sum_{d=1}^{\infty} \frac{p_k^0}{p_k^0} \; , \; \; \sum_{d=1}^{\infty} \frac{p_k^0}{$$

$$n \to \infty \; , \; n_k \to \infty \; , \; \Rightarrow \prod_{k=0}^{\infty} p_k^{\; s*n_k} = \frac{\sum_{d=1}^{\infty} d^{+s}}{\sum_{d=1}^{\infty} d^{-s}} \; , \; \; \sum_{d=1}^{\infty} d^{\pm s} = \prod_{k=0}^{\infty} \frac{p_k^{\pm s(n_k+1)} - p_k^{\; 0}}{p_k^{\pm s} - 1} \; .$$

$$\Rightarrow \textstyle \sum_{d=1}^{\infty} d^{-s} = \prod_{k=0}^{\infty} \frac{{p_k}^{-s(n_k+1)} - {p_k}^0}{{p_k}^{-s} - 1} = \left(\sum_{d=1}^{\infty} d^{+s} \right) \prod_{k=0}^{\infty} \frac{1 - {p_k}^{-s * n_k}}{{p_k}^{s * n_k - 1}} \, ,$$

So, the Euler product formula is not accurate, that is, $\sum_{d=1}^{\infty} d^{-s} \neq \prod_{k=0}^{\infty} \frac{1}{1-p_k-s}$.

Therefore, all papers quoting the Euler product formula are problematic, and the Riemann conjecture related to the Euler product formula is wrong.

Reference: none.