

Conjecture on the value of Brun's constant

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Conjecture concerns the relation between 3 constants: Catalan's, Ramanujan-Soldner's and Brun's, resulting in receiving the closed formula for Brun's constant, which direct computation is not possible so far and is based on extrapolation of achievable computational results made with the help of the twin primes conjecture.

Let **G** be the Catalan's constant

G = **β(2)** = 0.91596559417721901505460351493238411077414937...

Let **μ** be the Ramanujan-Soldner constant

μ = 1.45136923488338105028396848589202744949303228...

Let **B₂** be the Brun's constant

Conjecture:

$$\mathbf{B_2} = \frac{8+40(\mu-G)}{16-(\mu-G)} = 1.9021605831029730799822614917574361...$$