

Question 935: An Integral for Pi

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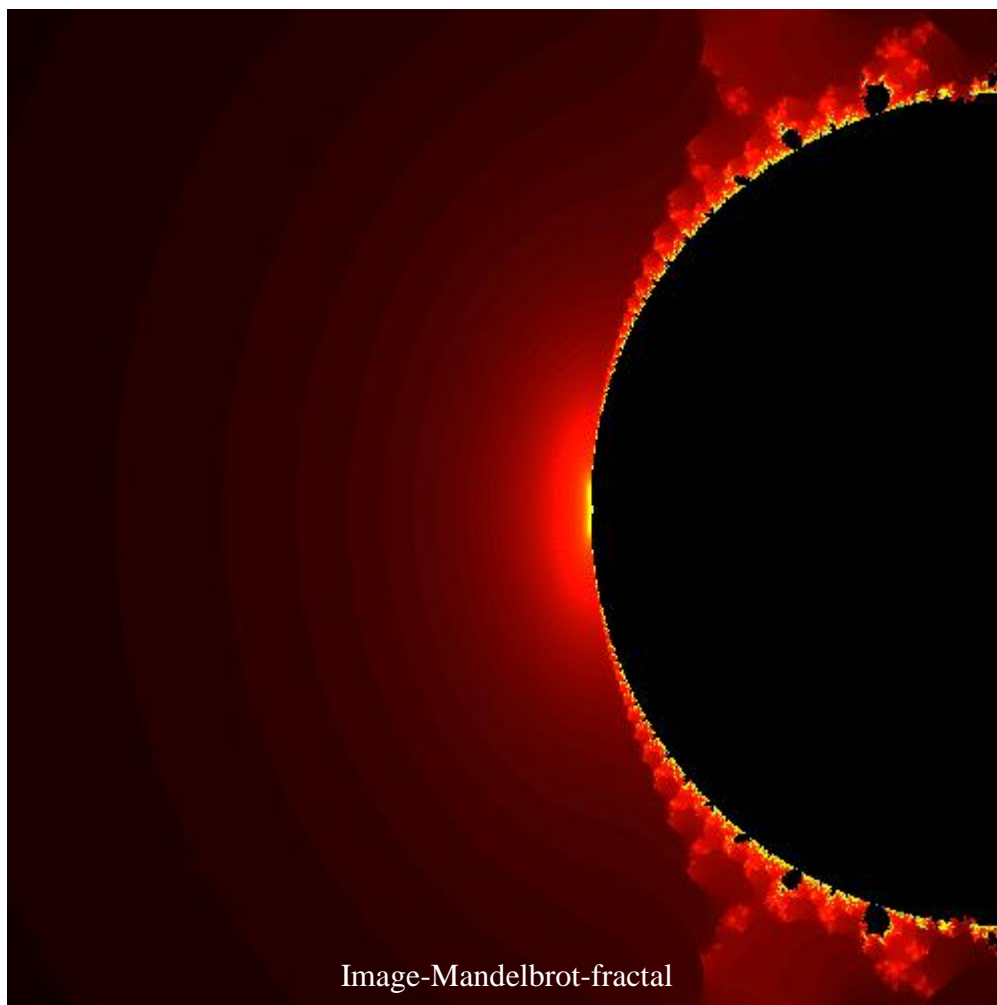
abstract

In this note we present an integral for the constant pi:

$$\pi = 3.14159265358979323846264338327950288419716939\dots$$

1. Integral

$$\pi = 3\sqrt{32\sqrt{3}-55} + \frac{3}{\sqrt{2}} \int_0^{22-9\sqrt{3}-\sqrt{4\sqrt{3}-1}} \sqrt{\frac{x}{56-5x+\sqrt{3136-432x+9x^2}}} dx \quad (1)$$



References

1. G.Boros and V.H.Moll: Irresistible Integrals. Cambridge University Press: UK, USA,2004.