

The Inverse Fine Structure Constant A Relationship of *Pi* and the *Diametian*

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Background

The fine structure constant and its inverse expression reflect a specific spacetime/movement event in matter-energy. The formula that is often given to state the manner in which the inverse fine structure constant, [137.03599911](#) value is derived is expressed as follows:

$$\frac{e^2}{\hbar \cdot c \cdot 4\pi \cdot \epsilon_0} \quad (1)$$

360-degree circle



$$360 / 3.141592654 = 114.591559 \text{ (diametian)}$$

$$3.141592654 / 114.591559 = .027415567 / 2 = .013707783$$

Algebraic formulae aside, the inverse fine structure constant may be derived directly from the relationship between the diameter of a circle and the concept of pi (3.141592654)

360 degrees divided by pi, 3.141592654, equals 114.591559 (the *diametian* or 2 radians)
The numerical expression of measurement of the diameter of a 360-degree circles consists thereby of the 114.591559 diametian.

As shown, consider the relationship of the *diametian* to that of *pi*.
When *pi* is divided by **2 diametians** the inverse fine structure constant obtains.

$$3.141592654 \text{ (pi)} \text{ divided by } 229.1831181 \text{ (2 diametians)} = .013707783 \text{ fractal}$$

which is relational to the inverse fine structure constant.

Essentially, the radian times the fine structure constant yields a multiple of pi.

To obtain a multiple of the *inverse fine structure constant*, you may also consider dividing *pi* by the *radian* :

$$\frac{360 \mid \text{diameter} \mid \text{pi}}{\text{pi} \mid \text{diameter} \mid \text{FS constant}}$$

$$1 / .14591559 = 6.8532772$$

Mantissa 13.7065545

$$3.141592654 / 57.29577951 = .054831135$$

.027415567

Inverse Fine Structure Constant-like fractal value > **.013707783**

The fine structure constant value is inherent in the relationship of the circumference of a circle to its diameter.

$$57.29577951 / 3.141592654 = 18.23781305$$

36.47562611

Fine Structure Constant-like fractal value > **72.95125222**

The fine structure constant and its inverse expression are obtained directly rather than by the redundant *albeit* popular algebraic expressions. The base relationship of the diameter of a circle to its circumference derives the inverse fine structure constant as fractal **1.3707783** (not as [1.370599911](#)).

Consider the *diametian* times the fine structure constant yields near the proton mass:
 $7.29735257 \times 114.591559 = 836.210076$ doubles to 1672.430015 (proton mass, 1.6726231)