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## Hilbert's 9th Problem Algebraic Reciprocity Between Number Fields

### Theorem

The trigonometric scale and parametrization of de Moivre's theorem gives the return of all number fields by the law of large numbers as described by  $f(xn) = (S(n)/(\cos x + \sin x)) + 1/S(n) \dots n + 1/S(n)$ , where  $S$  is the area or surface and  $n$  is the part number of the area or surface and  $x$  is the size of the parameter or scale.

Relation: What is the algebraic reciprocity law between number fields?

Function: The most general law, given the specific case of e.g. xyz...n-dimensions starts at a homomorphism between de Moivre's theorem in return to the laws of large numbers  $f(xn) = (S(n)/(\cos x + \sin x)) + 1/S(n) \dots n + 1/S(n)$ .

Key ratio: 45 degrees

### Proof

If the capture of the large numbers by de Moivre's theorem is the Central limit then it is sufficient to show that the general law between those two formulas are the main reciprocities between all number fields. Calculus merely isn't being proven here because the trigonometry implicated constitutes analysis and topology at higher yields of theoretical scaling, parametrizing, and computation. Therefore the reciprocity between the algebraic manifolds of torsion-free  $C^*$  algebras are statistically drawable distributions. General law commits the guarantee of reciprocity between algebraic number fields of the polynomials that are they key solutions to the algebraic number. Fields that are and make-up the physical composite that is the world and observable phenomena the reciprocity is the binding loop factor that creates a dipole lock that is in tandem with the myriad complex complex algebra structures that in turn are interrelatable on a logical to metamathematical form and reason. It is the ratio that is 45 degrees here that is more important than its mark, 25% of its capture, because it contains the scale at which the geometry does not withhold the digital print of its allocatable sequence. That is allocatable sequence of a loop that contains all the calculus, to computable, to analytical behaviors including game theoretical methods and the overall observable phenomena that is labeable "the world." Therefore the hapsoid recollection of this digital print of automata is qualifiable as proven here where the mask is the De Moivre's theorem and its return is the law of large numbers. Therefore the general law of reciprocity of theorem between algebraic number sets is findable through those two formulas, strictly and merely only as such so.