

# Combinatorial Phase Separability and Congruence

## Physical Laws and Observations

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### Abstract

The clearest distinction found in that of the domain of matter is the congruence of the reflective and birefringent refractory laws of crystals and optics, for that of material specificity and the mode to eigenvalue procedure of breakdown of all but quasicrystals and certain colloid to nematic-crystal phases. Here, we will explain the properties of these materials in terms of the phase-congruence between the cooperative phases of crystal and fluid, for that of the atomic (sound - phonon) and electronic (charge - photon) modes of these crystals, and the phase-separation, with, the phenomena of agreement between the mode driven and separated by a weak link of the alternative differential equation. This is a new nature of broken-duality, which is an example of a relationship stemming from the energy-eigenvalue-geometric relationship of phase in group and phase. Thus, it is learned in this paper that the differential anharmonicity is a resonance of which is a formatively and prior to understood of material property in relation to mathematics, concealed state of matter akin a counter-process to a quasicrystal. The process of the secondary eigenvalue and primary first eigenvalue is then reversed, to-which the diophantine equation governing the behavior is related of pell's equation, the  $kp$  equation, boussineq equation, schroedinger equation, and laplace equation, as in optimization theory. The differential equation then - very much illustrates a secondary relationship of the eigenvalue off-center, and off-basis of the diagonal of the differential on-diagonal of the various dimensions, with - the secondary dimension as it stands of the basis of a condition on the blind-zero-on-sight of a disinclusion with neutralization of the primary second dimensional space.

## Introduction

Whence beginning (preliminarily) with the  $kp$ -equation, the lorentz-maxwell equations for that of the non-linear oscillation, include the normal simple harmonic oscillation, when, as-such, there is such an off-center. Thus, the inclusion of a brownian bridge, or similar, of the form of intermediate neutral phase as understood in a mott insulator, introduces for that of a threshold condition, a phase congruency in differential equation, and phase separability in that of physical phenomena, of which proportionately introduce via eigenvalue and geometry of phase, a given group-phase acoustic-optical bridge. This, can be utilized to create a operational-calculational machine, by operating the vertex-cell, for that of the domain-cell, over line-like aperature of double-slits, with optical and electromagnetic bridges of **E** and **B**. By discharging, charging, and symbolically replacing, carrying, and prompting characters, computational process is possible with microdots or microstrips, to

do the processing of an optical-sound-electrical-topologically hybrid computer. As a consequence of the Mott-insulator and Kondo-effect bridges, certain materials illustrate a doping-dependent crossover, similar in nature to transistors, for that of a potts model oscillator or gunn diode. These behaviors depend on the secondary-linear  $(\alpha - \beta z)$  dependency term, breaking in-translation and affine-abelian (artin algebraic units) the godelian hypothesis, in syntax and semantic queue of the relationship of a bracket symbolism. Despite what is surprising, there is no universal key, and no universality but of the algebraic limits of power, memory, energy, and entropy. This is the basic effect and principle of dedekind cuts applied to knots, for that of dimensional 'union and subtraction of concave and convex set', graph, and casimir energy flow in energy, power and time, the effect in principle of translation of a symbolic equation into and from the physical theory as summarized in hawking radiation, the theory of the mott insulator and semiconductors, the super insulators, super conductors, that of the mendeleev chemistry table, and optimization theory to mathematics, and from mathematics, to switchable 'gates'.

When this process is of one hierarchy, and the virtual is another, the process subdivisionally qualifies a process and multiplier-basis resolves to a basis of 2-1 on the diode-channel, and the mutual-phase procedure of the two mutual phenomenena responsible for the Mott insulator phases of insulator and partial metal and partial semiconductor. Essentially a channelled-upper process and lower process form an elliptic unitary and non-unitary hyperbolic point, of which separates the phase diagram of the union of covalent and valent sea into charge and polariton channels of flow, which form, reregulatively motion to two spaces, and conjoin at an ancillary  $(\pi/2, \pi)$ -point, of which relates of the valent and non-covalent spaces of the differential equation of a zero and non-zero binary category form, on one-form. The electron advances and paces, and as a result, the formation of the resonance on the two-channels forms an elliptic centroid, on the kp-space and the nlse space of sine-gordon under translation of the one-form, to the channel of the unitary electron aprojectively 'hidden' electron, off an-inertial center, to-which the effective mass of the electron becomes exponentially massive.

## Prerequisites

Catching the relationship of a two-folded algebraic elliptic is as simple, *as the argumentative basis of:*

$$\iota \rightarrow B : [(p(l), q(l) \eta)(a(z), b(z))] \rightarrow [(L(\pi, \tau), T(\pi, \tau))] \quad (1)$$

When these equations are cast in doubt, they are to be recollected, as the  $\{A, B, C\}$  as inherited by the  $\{\Pi(\omega), \Theta(t)\}$  of the algebraic versus literal-worded *phenomena* of the phenomenon of varietal intercongruent *phases* of matter, in relation to sequences and flows of relationship, for which; the amended-differential (wed relationship in fact and tool) is a relationship of equation and the agreed reprudiation of a 'non-consequeative bias' on flow, for factual measure, for a given-tool.

When\* (*then*) as-such the differential equation is related of the third step in one-manner of dialog, it is formative a hypothesis is it's alternative comparative another (non-tool) co-example of demonstration to, then the second to the first partition, of the tantamount relationship of a secondary peir, comparable a primary peir. Thus, appertaining to a dialog for the concession to a student, of a teacher, amends the process of two discredited student(s) on behalf of addressing a class, as in type, or manner of disposition to their respective parts.