1. 125(1): Properties of the Cognithuic Spiral. (Rd. WWW. 2d Curves. com Ispiral Spirallo Drel) Thus first studied of Rene Descents is 1638, and less first studied of Rene Descents is 1638, and developed by the one camplic (1854-1705). He current we is identically and carried and rational for patient of the first and length of current we were a line, to patient and length of a spiral rules over a line, to patient and length of a spiral rules over a line. He multiplicate and length of a print p (19, 11) is 1 sech when a print p (19, 11) is 1 sech when a print p or original shape a part when it is a long of the part of the p The logerhair spiral is: (a). - (1) penentialer to a uniform granto magnetic field astant spacetine Kasia produces a synform

gracito myrelic field.

This also disterest that relative is

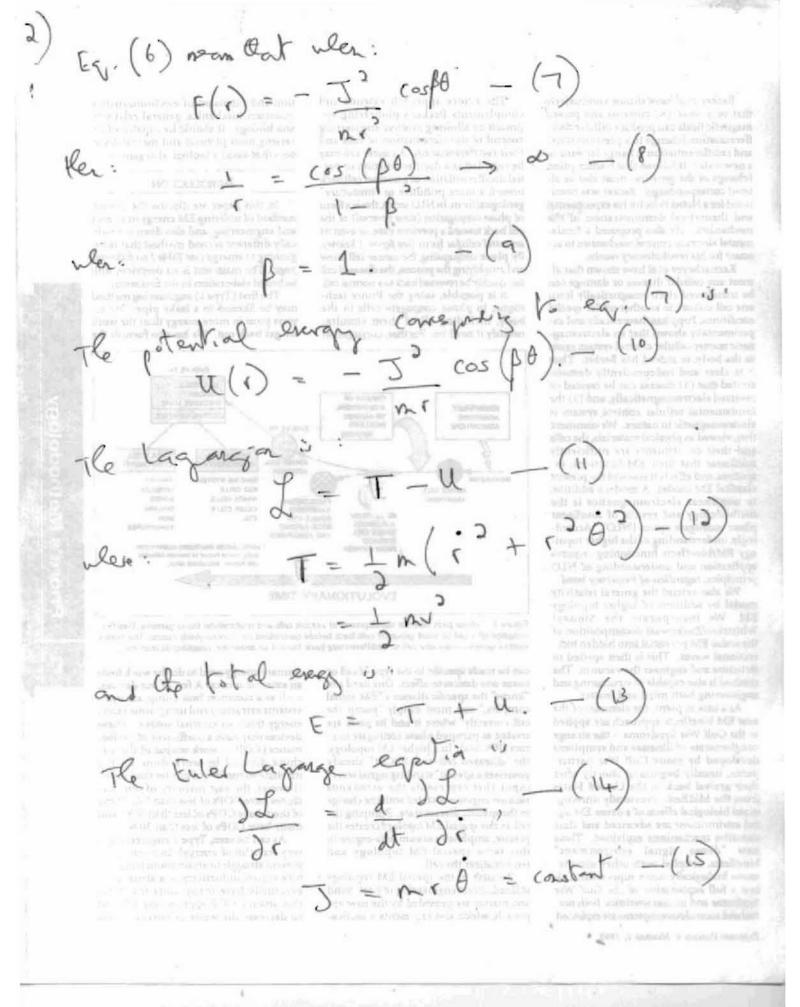
equirlent to milk pleater of the logarithmic

spiral. Ris is a fundamental mattern is all properly.

2) Re Super-Spiral is: (= e ((cos (do) | a + 1 sin (do) | b) c - (2) and products namy Spirit - like pattern which could could a cocount for irrequestives in a which pool golaxy. It is recession to find the force. Some due to a super-spirit. the log spiral is destroked by the equition: = texb + y/sr - (3) All tese equations could be wed for animations. te argular montan of a star many of a log spiral is: (1+2)"> - (4) RVr $d \rightarrow 0$ (5) dis Secons to enzula mentin of a cicle: J -> mur and he spiral look like a slowing it crearing circle. The could model be core of a whilpool galaxy.

. In the opposite limit: $d \rightarrow \infty$ -(7)J -> 0 spiral de gur to look like a stright 2-30 Central core owler ams t. Jue de argue a nomention. For a given d, Jis conserved, This is a conservative, a non-dissipative system is which arrived momentum and Notal everys is casened. Hovever, if a gradually clarge, this case: J(i) = AVI (1+ q(1)3) 1/3 $mv = IJ(i)(1+d(i)^2)^{1/2}$ - (10)

125(2): Resource Structures in the Egypation of the Spiral. Start welle Enler lagrange egyptia of a particle moring is a plane subject. No the face Saw F(1): ulese J is a constant. Let: - N. F(1) = cos (B0) -F(i) = -] (os(BO), ther eq. (1) Secons) + 1 = (05 (BB). -The solution of eq. (4) (05 (p)) = - B siz (BO) 9, (1) = - b, (02 (b))



Eq (1) is found for ex. (14) as follows, wit. 115, 1995, o. 5 1 L. Zighil, corrected (1) no 1991 the laws of physics or the mercy names are booked in the system as Firstly: du = - 1 de = - 1 de de = - 1 8 too Poyeting S Now increases where As some paper the joule of heliatively watter-From Ray (15) will be made and bout measure out to granding and and couled lotace and where it is the Mergy gain or energy collects or STREET, SUITERS Ju: 134 - 4 (- m i) = dt d (- m i) = -n and course you are a second of the local parents of and the correspond anythere is an open system from the formation of the local parents and the content of any the content of the content of the local parents of the loc - 2 m 2 d 2 m 2 (θ) = -And street contains to a primar of pumple or communicative all regarges or communicative and Lawrence's before the pay to suppressive these saidles Assertance and advantage Leaderd property Stores desirate begins One Joste of Emergy Can Do Man? Securino Justes of V ~ 295. (10) to (10). 20 permits one have a revealing by heary sames that wild be course in the person of the varieties one have been and the produce multiple position and be course in the person of the varieties was there are not produced by course the person of the varieties was there are not person being the person of the varieties was there are not pook of the person of product of the person o of years, every [oule of this) prisoned as you wouldy performing toute after jobs. genetily performing

Euler Lagrange eggal So we advance the executation for stituting 10 but Dometical A fair on as DA STATE Any of 18 Cay of the pologicals that complice the equation [10] will a prior more a torest of the may great the man of the court of the produce one of note Jacob Joseph Company of the product of the courty of the system as well say controlling the regulating of the control ser along their operage where, how, and when these expect forget appear, and have solt energy appare in the system wild hym. The Ognering sow provides all מוע בייבית לבי לבסוב ול מוער בי ביום בייבית לביים בייבית לביים בייבית ב in morestery but not rellicated at the state of the law to the state of the agre of another top exists tings consect to the ratemarcrically regarded supported bearing of plant ones the designer has his the eligibility described the restorabled, said for California of the contemplace asymmetrically as afformation of the content of production in it and a 26 as of a wider hand. The wheel then intercepts, cultures, and asymmetrically appeared for the except among to Xm 0 Very Verym httphile than Back Tolly and Sun Stateshill Herding energy can be Invert the energy vollette mechanism, No. 2 to to the stay our be unreful to applying conservation of energy. For a thorough analysis, several frames must be identified and cales make makeny as follows; (i) like flow of the courts, impleging upon orilactor, (ii) the cubector itself and the type of collection process willed, (linear or nonlinear operation of the collamination/collecting process utilized, (iv) that is norm acts as a free l'oventing flow empiriter and disretore as a free cours

1. 125(3): Face law for a Super-spiral orbit. The super-spiral is defeating: a=b=5, c=-1/5, d= 512, j= 115 This can be wed to model to megalacitie and patters wered it a whit part galaxy. To find

the face law but generals as asit of type (1) w

my fine law but generals as asit of type (1). Eules Cagrange egglia for planes motion $\bot = 9xp(-f\theta)f_1(\theta) - (3)$ $\{(\theta) = (|\cos(d\theta)|^a + |\sin(d\theta)|^b)^{-c}$ $\frac{d}{d\theta}\left(\frac{1}{\epsilon}\right) = -\beta e^{-\beta \theta} \int_{1}^{1} (\theta) + e^{-\beta \theta} \int_{1}^{1} (\theta) d\theta$

Here: water CO, reversely Conference Lineares, CO, stay : 918 (4B) + 121 to apply built to grotest elegaters learned yourself as a physical and well-known to When the Henvisher Manwell a Debles ale not regarded the in the model the teleproductional and speciment of the men enalizable for the formation many o that came, fire collection -terrand the little population Diverses seem many of along from the ASS. nationally employed. Daughy a Mich required the bottom Anying free force (a) monumity the in the state of (ii) independed but yet as a solutional appearance of the second state of the second s force that would being sonal connection), or (iii) reverses the bard-onhe verteen. For the latter case, the net beam $\left\{3\left(\theta\right) = 4\left(\frac{1}{2}\left(\theta\right)\right) \right\}^{-1}\left(\theta\right) = \frac{1}{2}$ is come for summer and power body, water not reprove a The source capole. Low les many of the first state of the first and the first = \frac{3}{3} (1) \frac{1}{r} + \frac{1}{r} \frac{df_3}{r}

Resolution of the special war street of the Middle - mrested to n antimite & melin & Dan D lifeto proposito, altoni vicient energy exittings with the rates of mentions formequeby, requestly also upon systems for from equalitation, ricel receiving and then excession agreence poles are also free endrgy \$50 s. Last CONTRACT DAY CARREST CONTRACT Ilde: a very file of the Parket P As sissed, a magnetic cipole or an electric dipole products a continuous flow of not classical EM theory - the dipolo is a protest symmetry in the violent virtual particul sees the vacuum and the charges comprising the male of the Pays management and AMARITY IS BE ALLED ! of the expensit, supt a ninofproduces source executy therefore to the Principal point of the States every is no play continued If exercise conductors (equivalent first groups) are attached of her appears in the extracted overlay density S flows along the outside of the conductors of the inform us the Poyeting citting density flow S = Eastl. This Postition course details thus continues, whether or not the external circuit his content datas fluwing in it. S flows. As source logic ends of an open circuit, and on our last space from ourse. a vivere + cused Adequically or magnetically charged periods to be a proper to the property of le recorded as constan ed of the pa Jed perperticular to to practice of squirate variables - which also eliminates overnoisy repurcing systems from the model. The arbitrary siteral Insures that the modal new only coucan E.M. the Lo enter contents of syntanterical regarding is an ac by mercody and city and it is not billing seen the required law of playtics or they suggiture This remainmental error resurt of released ynamics model itself to that some when represents on left when quentially in local equilibrium. Advonce can see that rech an electivelynamic sylve land, with in certaining with the faces vacuum requires the operator to input any energy it conjugate set leates. Secretarily encluded by a guarden of the Largest conductor has been are original subject of the

(entral Maria is Mutia is a Time Independent Spaceline Tosia. Central notion is traditionally duringed of the notion due to an attractive fore between two particles The potential every of attraction depend only or to ditarce of a particle for to face centre, defends to reduced mass: MITAZ Potation of the system about any fixed axis through the centre of force common affect the egration of motion. Under less circumtures to engular momentum is (asered: at I = 1 × p. - (3) ☑· ☐ + · · · (4) a spacetime Vasia that his not change with time. Sich a tasia con se integrated over volume to purhue egyptin (). It follows that a time.

L'dependent, i.e. conserved, tousion produce is dependent, i.e. conserved as attentia potential but is a freeting only This is an important now theden because

end only on / ds.a. what is of word as some would produce the same R. Lagaga is Charging. (Su we can) riggines can a work as a charge of theres complain. A change of traplate solucitating involve adjusts spanning of affectal west. If we consider the varual particle flex of vacuom as seeing a dynamic, congrue template in a local region, then mass becomes merely a special subdissed change of template, sec. a a garge egration are: Since (of the control of the contro potential crossops; e.g., it can be served of the caloned to the charged as an electronic material or action the carried and charged as an electronic material or action the carried or and charged as an and the property by the party of the party o The interaction of the Inim Weith beharged partily state out and an special broken symmetry. In this case, a Trypic Chicago & but patents tempo as has been established in the excess five pull forthing broken surprising of the charges , now in: Stab Dard To Males a Vagues "An EM temporie in the virtual photon flux of vacuum exists an energy-next tell and the manufacture effort of the minime's unterne can se

morrail XIv Energy Conference, Deaver, Soule April 15-5 -1 'Link nd boar Tee! Loop -As a conducting election in Craes the reasons from high potential and At Youghal 55 complement the decreases. As the electron reaches 8 b Some proper in the market of and the real result of the real results of the real resul consquently, it can be considered managemently next in the circuit The electron is and to have gone through a potential deep" (through a visiting Oit is passible to develop the transfer of the last transfer transfer to Tal god Saralo a na shipb sarang a world was a few property with a standard of conferred behaving one of the are congularly and to come of the till all the til or many that the man of the property of the pr wirest loop. Even who the state of contract of languages of the state of the st all a mount blood and or many of the form Conserved alese love laws are System Equilibrium Requires Up Here we restrate the priving tesperimentally 2 wolf of particle physics and gauge field theory that there can be no against Kepler word and an address of the state of t shows that wast war war of to the the transfer energeic extra but they want eractions of the section, continually restoring the boston accidental ray Las already familied the "equilibrius" of the falls falls fine model. In faccount, and that falls fine model in was a develocate electrical system of interest, one Qui, case conserve lation produce en Mire Francisco (1+d) 23 (1+q)

4) and : we will a some of the last of the Chis case conserved turior prod A pogeni alized q presess forward in his t beyond it but with great repoliting enganages from them. The but the very clary of the carriers of bonglochastly down the carriers of bonglochastly down the carriers of the carriers. misrogues esqual and to see monorous land and the charges comparising Precessing Elliptical Orsit (E the less the problem in and goods at exact but should be the final II. goth work, there is a depotentialized electron that meet he forced supply the control is reported attact, and therefore to forced through he dipease things to ready them and prove or desired to the organism and losses, there is a flat, in that task, for every yould of were once in the loads and losses, there is a encomitant look of work done in the source dipole to reduce and searcy its stemment against of the free flow of energy from the vacuum. In the case of a Q faction of realistic assume vacuus the shuft a bit further, creating a mire the descript of appears to the shuft a bit further, creating a mire the shuft a bit further, creating a mire the shuft a bit further area in a mire than the shuft a bit further area in a mire than the shuft a bit further area in a mire than the shuft a bit further a mire than the shuft a bit further area in a mire than the shuft a s otle ocsits The spiral asit: constrained their selections of prising a literal most of the sestions of their description. For elements a see layoland is literal professional entre and a second of the session of the the property of deplete to the service of the servi conting old confusion in abusing objections that these transverse gyradies and wirther the property and the more of force of the incoming vacuum of the area of the incoming vacuum Ungl to Remodition of the contract of the pass of the references intensities. The result is that the violent elected becalerations in acopleration intensalies. The result is that the violent elects produced by casened hasia.

It may be proten a follows that the ECE experiency who are angle measured in and destructions are angle measured in and destructions are angle measured in and the last of the testion, and the last of the testion and the left fail the consider the first of the feet and the left fail the consideration of the feet and the feet of t 125(5): E(E Egration is Temp of Plagueous Momentum The volume V is taken to be a fixed volume which has not flustrate with time. This is to be sais in field thear of a departially conservative system, contained within to dolume T. Since T is a constant: On (VT°M) = OnTM = JOT - (6)

(initally is and M. Toll suggest of the Reserved Land State of the Reserved A. The State of the State of the Reserved A. The State of Structuring and Decomposition of the Scalar Potential Just ayong in, one be-further decomposed but constituers mosts, cardet, Received the company of the property of the pr a was as (a.P. a) to save past call is further many and in the land out on cash to out out of the land Companies of the Westerland decomposed again and another white of hidrectional life way structuring due of Domines of Control Structuring Special structuring dual is and of vector posmethin and Pelds, is foregoing at follows the status potential in itself out a status patter Here in some in the Transfer rates a Committee of the sand of the costey durinty treputibles of it o de egration 1 around potential at the spatial found it of the second for the form of the form of the form of the second sent to the second sent to the second sent the second sent to the sent to t E. Dinja sajamitakonjanja in some A against that it is a scalar cutty has been a a there (a) been no true delivered to Moderate Trained electrostycamics, tiantity an algorithm - for calculating the solar magnified of or as its "destriction," H.g., Krail gives the formula for a potential referred to his the physical potential" of a charge source as Please is universally dance, the protection potential at infinity is rather to be zero. However, the vaccount at infinite distinct a the ambient vaccount potential. Algorously, it as by the design with the fill a politicaria social proportion to the potential is, by definition, on work per contamb regular to linke a postave and and & electic field strengt ...

units of Ehr are volts in Solf RHS is: · Volt sminkgnikgn n's Alan and Toy northern meidien meidien des electrony of the and have been dead between the search was the search and truth controlled the board from the formal formal and In S.T. units Bin is a time less than E Le units of Die are volt n sn = volt sn ? point charge up and a unit north polit. The torse fields in the theory acqually piece Electrolyzamics 3 it is assured that there is no magnitude maple, Out is zero) the eggs. (5) and V.B = 0 ; DXE + DB / St = 0 e 1957 - when very hardsmooth) broken syllandries J. E=p/6. : DXB-(1/6) Just Just and Just Just Andrew Conference and Just Andrew Conference an normal multiplication with the charged mass in new accused as a contract if it it is to be a contract to be a decayed that as about a party and contract to be a contract to be from an executedynamic system to be to equilibrium with the vacuum, is must Decembel yourse equilibrium. The control of hot bearing the state of the second as - ho = b 1 - (19) mose = Rufrishman to the state of the state Further, It can now be IL ECE Bear Sot eggs (18) and used is to field they of dypani of duranco

ECE Dynamical Egrations the 1967, in that Salestine consisted in finite 1967 and in Salestin 1969. Lineray Flow, Sy Jection, and Dussipation in Overanity Enthouses V. F = 7 c /m マメラーデニテムラー ner end classes of the label Label EM systems as In The to the state of the Davening and there is a fact that the state of the st a s. e. EM systems for from A Market Com 34 months (who profit caugy fluction or in air districts rate of a principal state of a principal or an area or and an air and an air and area or an air an ai se we so prover is to rext rate. Here: = asital organismentum of spacetime Spir arged mentury less: Ky was quant or rows the - mass - current dessity volume of the caserative system (i) is equisalent to the Coulon's law
(i) is equisalent to the Coulon's law
(ii) Gauss Law (3) " Faraday law 4.5

1) 125(7) : E(E Field Espations in Temo of Argula Momentum Structury Refield egyption is into that the arguer mentur Ju Jui in liver aroless we de equition of de trudy con is.

- (3) column today note in Justic Fire = J/E = (4) who is eq. (3) it he seen assumed that the magnitude is zero. In general, ECE allows a na-zero mongolo. Fe destangation field tend is - Ex - Ey - Ez | --cBz cBy Ex Ex elz o -cby cbx Ez 0 -Lx -Ly -Lz -Kerefae: - Sz Sy 0 .Lz -Sy Sx 0 at Casists of orstal (1) and spin (5) arguest momentum.

It follows that eq. (2) is: L = jo - (7)

Here:
$$2 \times 5 - \frac{1}{c} \frac{\partial L}{\partial t} = \frac{1}{2} - \frac{1}{2}$$

Here: $2 \times 5 - \frac{1}{c} \frac{\partial L}{\partial t} = \frac{1}{2} - \frac{1}{2}$

Ly = $3^{10} = -3^{01}$, Sy = $3^{12} = -3^{12}$

Ly = $3^{10} = -3^{01}$, Sy = $3^{12} = -3^{12}$

Ly = $3^{10} = -3^{01}$, Sy = $3^{12} = -3^{12}$

and: $L = \frac{1}{2} = \frac$

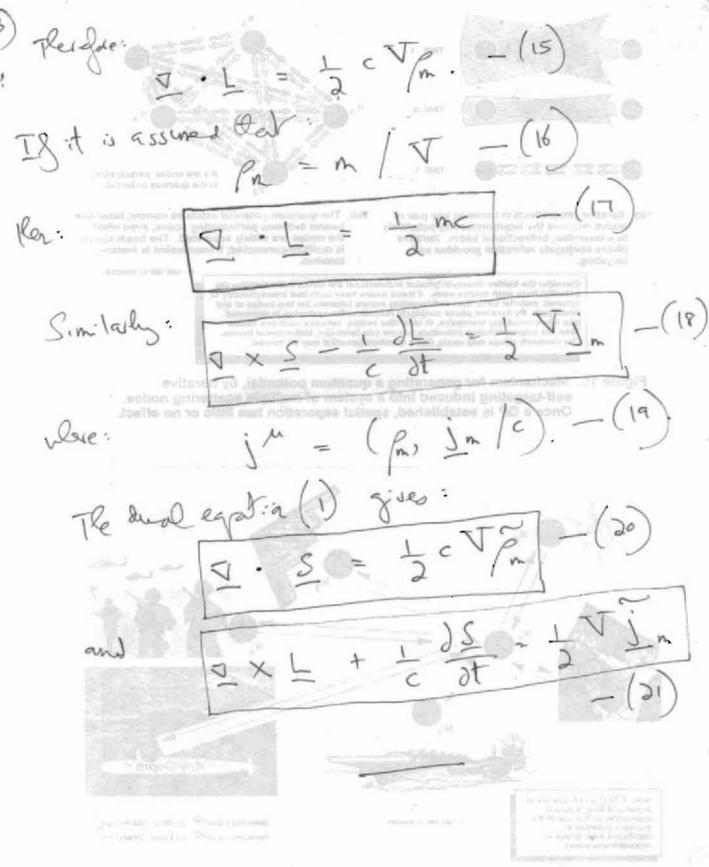


Figure 15. Quantum potential as an energy-ampilying and instant energy transport method.

) 125 (9). Face law for Variable d(1) Casider a log spiral orsit when d is o (= (0 exp (d(1)b) - (1) $\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} \exp\left(-\frac{1}{2}\left(\frac{1}{2}\right)\right) - \frac{1}{2}\left(\frac{1}{2}\right)$ $\frac{d}{d\theta}\left(\frac{1}{\epsilon}\right) = -\frac{d'(\epsilon)}{\epsilon_0} \exp\left(-d(\epsilon)\theta\right) - \left(\frac{1}{\epsilon}\right)$ 80. 73 (1) = 91(1) - (1+) The Enter Lagrange experia is: d' (+) + + = - / (5). E(i) = - F3 (1+9,1(i))-(e) Re asital relocks is the N3 = (3 + (3)) - (1) 1, = (T), (1+7, (1),) - (8) This is eq. (29) of paper 123, 44 & d'(1) 1+9/(1), = 1, (m,1), -(a)

1 5775 ACK II 14.201 a W. 80 87 harman bearing confidence I. J. Educated process physical re-Let directly and The was been and Departured. tal household with the black and District Continue Continue U.V. margaga

Field Potential Relation in Tems of Azgran Momentin It is possible to vite: $\frac{\partial}{\partial t} = \frac{1}{m} \left(-\frac{\partial u}{\partial t} - \frac{1}{c} \frac{\partial u}{\partial t} + u \frac{\partial u}{\partial t} - \frac{\partial u}{\partial t} \right)$ = 1 c Vp - (s) same units of g, and so h is A greatation equialent of B. Spir Comnetia Resource V 7. (- 24 - 1)4 + 40 - 6.4) 1 cVPn

Wh and, angular mention, L. As evolution proceeds (P.S. is a golaxy), le to a constant, giving the solary as we see it "today" (is our terms). 1) A Nite 125 (11): Impresent of Paper 123. The languages is definesy:

L = \frac{1}{2}\mu(\cdots + \cdots \cdots) - \u(\cdots) - (1) $\lambda(i'-i\theta^2)=-\frac{\partial U}{\partial v}=F(i),-\frac{3}{3}$ ·e. $\frac{1^2}{40^3} \left(\frac{1}{4}\right) + \frac{1}{4} = -\frac{1}{40^3} \left(\frac{1}{4}\right) - \frac{1}{4}$ Now define to logaritair spiral ordit: (= (exp (d(i))) - (5) $E(i) = -\frac{3i}{3\pi} = -\frac{2}{2}i\left(1+\pi_3(i)\right) - (e)$ - 2, - 2, \q_3(1) \q The asital relacity is: $r_{2} = \frac{3}{2}(1+\gamma(1)) - (8)$ It is Seeled tot Vo , as 17,00, so: $(1+\alpha(1))/12 \xrightarrow{(1\rightarrow \infty)} (1+\alpha(2))/12 = (10)$ 50 WESTER 2'(1) (1) (1) (1) (1) (1) (1) (1) -> (Vour) 4, -(11)

Therefore is eq. (6):
$$F(i) = -\frac{1}{2i} \rightarrow -\frac{1}{2} \left(1 + \left(\frac{V_{o,ur}}{J}\right)^{2}\right)$$

$$F(i) = -\frac{1}{2i} \rightarrow -\frac{1}{2} \left(1 + \left(\frac{V_{o,ur}}{J}\right)^{2}\right)$$

$$F(i) \rightarrow 0 - \frac{1}{2} - \frac{V_{o,ur}}{I} - (12)$$

This is the face needed to give lagarithmic spiral consists and to give a constant vo as (>) do. No dark notted is wed and it result (12) is a considered of a 1/13 and 1/1 face law.

We have:
$$F(r) = -\frac{\pi}{3} \cdot (1+d^{2}(r)) - (1)$$

where: $F(r) = -\frac{\pi}{3} \cdot (1+d^{2}(r)) - (1)$

So: $F(r) = -\frac{\pi}{3} \cdot (1+d^{2}(r)) - (3)$

So: $F(r) = -\frac{\pi}{3} \cdot (1+\frac{\pi}{3}) \cdot (1+\frac{\pi$