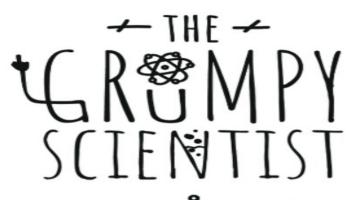
#### enartia **Crete Center for Theoretical Physics** m D-S GB charged Bit int \* - Wolfram Mathematica 11.0 et Cell Graphics Evaluation Palettes Window Help $2 r r h^{4} f[r] hXx''[r] - 16 r r h^{4} \lambda GB f[r]^{2} hXx''[r] + 32 r r h^{4} \lambda GB^{2} f[r]^{3} hXx''[r] + 4 r^{2} r h^{4} \lambda GB f[r] f'[r] hXx''[r] - 16 r r h^{4} \lambda GB f[r]^{2} hXx''[r] + 32 r r h^{4} \lambda GB^{2} f[r]^{3} hXx''[r] + 4 r^{2} r h^{4} \lambda GB f[r] f'[r] hXx''[r] - 16 r r h^{4} hXx''[r] + 32 r r h^{4} hXx''[r] + 32 r r h^{4} hXx''[r] + 4 r^{2} r h^{4} hXx''[r] + 4 r^{2} r h^{4} hXx''[r] + 4 r^{2} r h^{4} hXx''[r] + 32 r r h^{4} hXx''[r] + 32 r r h^{4} hXx''[r] + 4 r^{2} r h^{4} hXx''[r] + 4 r^{2} r h^{4} hXx''[r] + 32 r r h^{4} hXx''[r] + 32 r r h^{4} hXx''[r] + 4 r^{2} r h^{4} hXx''[r] + 32 r r h^{4} hXx''[r] + 32 r r h^{4} hXx''[r] + 4 r^{2} r h^{4} hXx''[r] + 32 r r hXx''[r] + 32 r r h^{4} hXx''[r] + 32 r r hXx''[r] + 32 r r h^{4} hXx''[r] + 32 r r hXx''[r] + 32$ $16 r^{2} rh^{4} \lambda GB^{2} f[r]^{2} f'[r] hXx''[r] + 2 rrh^{4} f[r] (2 H''[r] - hYy''[r]) - 16 rrh^{4} \lambda GB f[r]^{2} (2 H''[r] - hYy''[r]) + 2 rrh^{4} f[r] (2 H''[r]) + 2 rrh^{4} f[r]$ $32 r r h^{4} \lambda GB^{2} f[r]^{3} (2 H''[r] - hYy''[r]) + 4 r^{2} r h^{4} \lambda GB f[r] f'[r] (2 H''[r] - hYy''[r]) - 16 r^{2} r h^{4} \lambda GB^{2} f[r]^{2} f'[r] (2 H''[r] - hYy''[r]) + 4 r^{2} r h^{4} \lambda GB f[r] f'[r] (2 H''[r] - hYy''[r]) + 4 r^{2} r h^{4} \lambda GB f[r] f'[r] (2 H''[r] - hYy''[r]) + 4 r^{2} r h^{4} \lambda GB f[r] f'[r] (2 H''[r] - hYy''[r]) + 4 r^{2} r h^{4} \lambda GB f[r] f'[r] (2 H''[r] - hYy''[r]) + 4 r^{2} r h^{4} \lambda GB f[r] f'[r] (2 H''[r] - hYy''[r]) + 4 r^{2} r h^{4} \lambda GB f[r] f'[r] (2 H''[r] - hYy''[r]) + 4 r^{2} r h^{4} \lambda GB f[r] f'[r] (2 H''[r] - hYy''[r]) + 4 r^{2} r h^{4} \lambda GB f[r] f'[r] (2 H''[r] - hYy''[r]) + 4 r^{2} r h^{4} \lambda GB f[r] f'[r] (2 H''[r] - hYy''[r]) + 16 r^{2} r h^{4} \lambda GB^{2} f[r]^{2} f'[r] (2 H''[r] - hYy''[r]) + 16 r^{2} r h^{4} \lambda GB^{2} f[r]^{2} f'[r] (2 H''[r] - hYy''[r]) + 16 r^{2} r h^{4} \lambda GB^{2} f[r]^{2} f'[r] (2 H''[r] - hYy''[r]) + 16 r^{2} r h^{4} \lambda GB^{2} f[r]^{2} f'[r] (2 H''[r] - hYy''[r]) + 16 r^{2} r h^{4} \lambda GB^{2} f[r]^{2} f'[r] (2 H''[r] - hYy''[r]) + 16 r^{2} r h^{4} \lambda GB^{2} f[r]^{2} f'[r] (2 H''[r] - hYy''[r]) + 16 r^{2} r h^{4} \lambda GB^{2} f[r]^{2} f'[r] (2 H''[r] - hYy''[r]) + 16 r^{2} r h^{4} \lambda GB^{2} f[r]^{2} f'[r] (2 H''[r] - hYy''[r]) + 16 r^{2} r h^{4} \lambda GB^{2} f[r]^{2} f'[r] (2 H''[r] - hYy''[r]) + 16 r^{2} r h^{4} \lambda GB^{2} f[r]^{2} f'[r] (2 H''[r] - hYy''[r]) + 16 r^{2} r h^{4} \lambda GB^{2} f[r]^{2} f'[r] (2 H''[r] - hYy''[r]) + 16 r^{2} r h^{4} \lambda GB^{2} f[r]^{2} f'[r] (2 H''[r] - hYy''[r]) + 16 r^{2} r h^{4} \lambda GB^{2} f[r]^{2} f'[r] (2 H''[r] - hYy''[r]) + 16 r^{2} r h^{4} \lambda GB^{2} f[r]^{2} f'[r] (2 H''[r] - hYy''[r]) + 16 r^{2} r h^{4} \lambda GB^{2} f[r]^{2} f'[r] (2 H''[r] - hYy''[r]) + 16 r^{2} r h^{4} \lambda GB^{2} f[r]^{2} f'[r] (2 H''[r] - hYy''[r]) + 16 r^{2} r h^{4} h^{2} h$ 4 r rh4 (-1+4 \GB f[r]) $\left(4 r^{4} rh^{2} \mu at'[r] - 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20 r rh<sup>4</sup> xGB f[r] f'[r] hXx'[r] + 48 r rh<sup>4</sup> xGB<sup>2</sup> f[r]<sup>2</sup> f'[r] hXx'[r] + $4 r^{2} rh^{4} \lambda GB f'[r]^{2} hXx'[r] - 6 rh^{4} f[r] hYy'[r] + 16 r^{6} \lambda GB \mu^{2} f[r] hYy'[r] + 48 rh^{4} \lambda GB f[r]^{2} hYy'[r] - 96 rh^{4} \lambda GB^{2} f[r]^{3} hYy'[r] + 16 rh^{6} \lambda GB \mu^{2} f[r] hYy'[r] + 48 rh^{4} \lambda GB f[r]^{2} hYy'[r] - 96 rh^{4} \lambda GB^{2} f[r]^{3} hYy'[r] + 16 rh^{6} \lambda GB \mu^{2} f[r]^{3} hYy'[r] + 16 rh^{6} hYy'[r] + 16 rh$ Opapaki $2 r r h^{4} f'[r] h Y y'[r] - 20 r r h^{4} \lambda GB f[r] f'[r] h Y y'[r] + 48 r r h^{4} \lambda GB^{2} f[r]^{2} f'[r] h Y y'[r] + 4 r^{2} r h^{4} \lambda GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h^{4} \lambda GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h^{4} \lambda GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h^{4} \lambda GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h^{4} \lambda GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h^{4} \lambda GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h^{4} \lambda GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h^{4} \lambda GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h^{4} \lambda GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h^{4} \lambda GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h^{4} \lambda GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h^{4} \lambda GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h^{4} \lambda GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h^{4} \lambda GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h^{4} \lambda GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h^{4} h GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h GB f'[r]^{2} h Y y'[r] + 4 r^{2} r h GB f'[r]^{2} h Y y'[r] +$ Performance Dashboar $2 r r h^{4} f(r) h T t''(r) - 16 r r h^{4} \lambda GB f(r)^{2} h T t''(r) + 32 r r h^{4} \lambda GB^{2} f(r)^{3} h T t''(r) + 2 r r h^{4} f(r) h X x''(r) - 16 r r h^{4} \lambda GB f(r)^{2} h X x''(r) + 2 r r h^{4} h T t''(r) + 2 r r h^{4$ $32 r r h^{4} \lambda G B^{2} f [r]^{3} h X x'' [r] + 4 r^{2} r h^{4} \lambda G B f [r] f' [r] h X x'' [r] - 16 r^{2} r h^{4} \lambda G B^{2} f [r]^{2} f' [r] h X x'' [r] + 2 r r h^{4} f [r] h Y y'' [r] - 16 r^{2} r h^{4} \lambda G B^{2} f [r]^{2} f' [r] h X x'' [r] + 2 r r h^{4} f [r] h Y y'' [r] - 16 r^{2} r h^{4} \lambda G B^{2} f [r]^{2} f' [r] h X x'' [r] + 2 r r h^{4} f [r] h Y y'' [r] - 16 r^{2} r h^{4} \lambda G B^{2} f [r]^{2} f' [r]^{2} h X x'' [r] + 2 r r h^{4} f [r] h Y y'' [r] - 16 r^{2} r h^{4} \lambda G B^{2} f [r]^{2} f' [r]^{2} h X x'' [r] + 2 r r h^{4} f [r]^{2} h X x'' [r] + 2 r r h^{4} f [r]^{2} h X x'' [r] + 2 r r h^{4} f [r]^{2} h X x'' [r] + 2 r r h^{4} f [r]^{2} h X x'' [r] + 2 r r h^{4} f [r]^{2} h X x'' [r] + 2 r r h^{4} f [r]^{2} h X x'' [r]^{2} h X x''$ 4.128 €103.3K S $\left| \mathbf{B} \mathbf{k}^2 \,\lambda \mathbf{GB} + \frac{-2 \,k^2 - \frac{4 \,r^4 \,\mu^4}{rh^4}}{f(r)} \right| \,hTt[r] + \frac{1}{r}$ 18.1K 29.6K - 2 r 2GB f'[r] 12 H'[r] 48 AGB f[r] H'[r] 4 k<sup>2</sup> H[r] (-1+4 )GB f[r] 6 hXx'[r] 24 AGB f[r] hXx'[r] - 12 AGB f'(r) hXx'[r] 6 hTt'[r] 24 \GB f[r] hTt'[r] AQ ONEL ONE HUNDRED THOUSEND: YOU KNOW MORE THAN YOU THINK YOU KNOW

Matteo Baggioli (aka TGS)

≁ THF ≁







Thegrumpyscientist.com



### STAY GRUMPY, STAY SCIENTIST

The grumpy scientist



### HOW WE SEE OURSELVES

### **Theoretical physics**

Field of study

Theoretical physics is a branch of physics that employs mathematical models and abstractions of physical objects and systems to rationalize, explain and predict natural phenomena. Wikipedia

Maths, abstraction, rationalize, explain

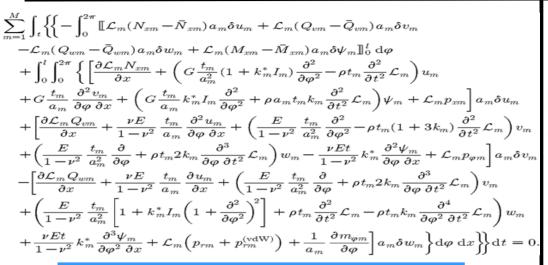


HOW WE ARE

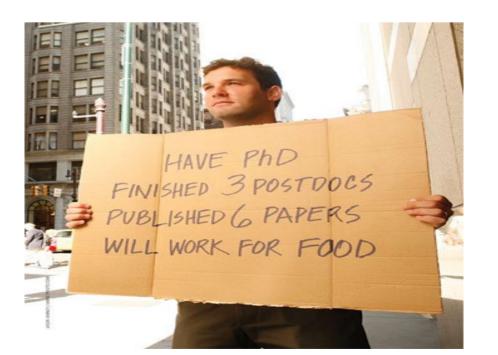
predict







#### **GRUMPY PEOPLE OFFLINE**



## **Container-based Ecosystem**

YOUARE

<a href="http://www.wordpress.com">Start blogging on WordPress.com</a>



### HAPPY.PEOPLE.ONLINE



# *WHAT WE HAVE IN COMMON*...









Y



Houston, we have a problem





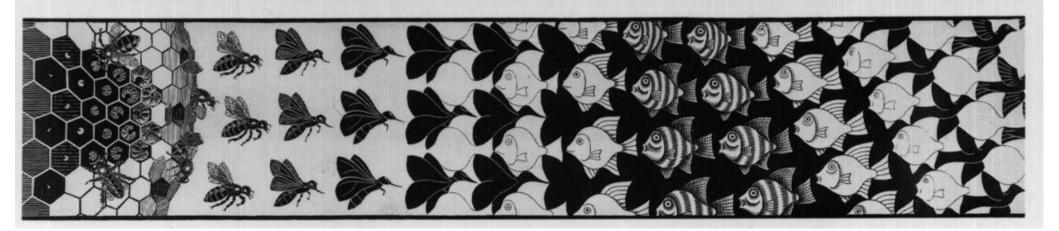


Slipknot - Duality [OFFICIAL VIDEO] - YouTube



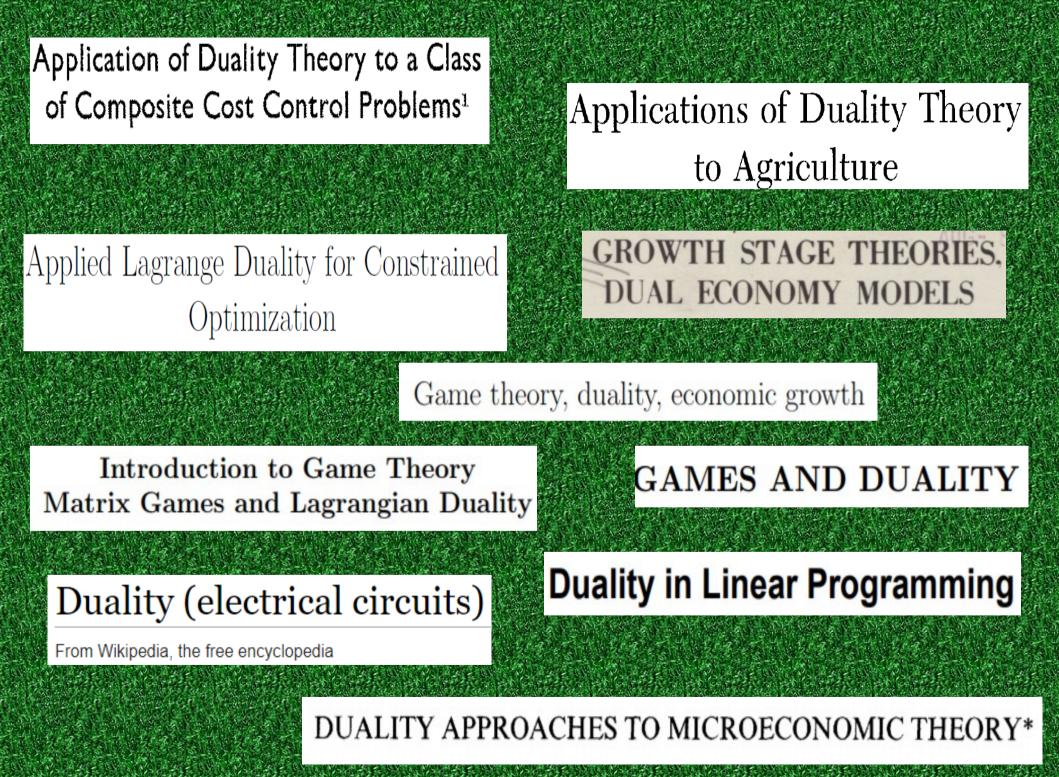
► 6:27

Star Wars - Duality - YouTube YouTube · BlueHalo Task Force



#### Lessons in Duality and Symmetry from M.C. Escher

Doris Schattschneider Mathematics Department, Moravian College 1200 Main St., Bethlehem, PA 18018-6650 USA E-mail: schattdo@moravian.edu





#### Philosophers like **DUALISM** as well

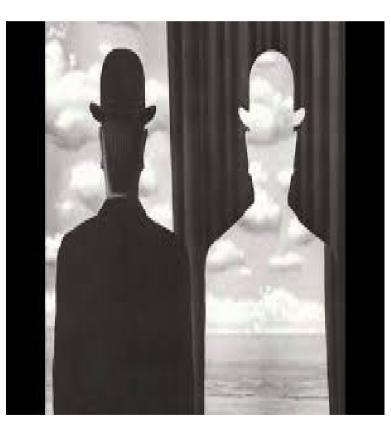
"To think is to split the subject and object, to feel is to merge them." – <u>Mark Mandemaker</u>, Nondualism: Merging Psychology, Spirituality and Philosophy



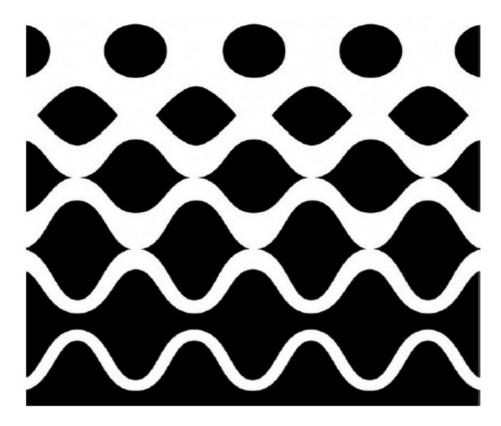
1 kind of substance PHYSICAL

2 kinds of property

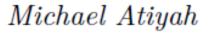
MENTAL PHYSICAL



... and we can prove it using ZOMBIES !!!! ( isnt that cool ?? )



Duality in mathematics is not a theorem, but a "principle"





$$\langle f,g\rangle = \int f(x)g(x)dx.$$

$$\hat{G} = \operatorname{Hom}(G, U(1)).$$

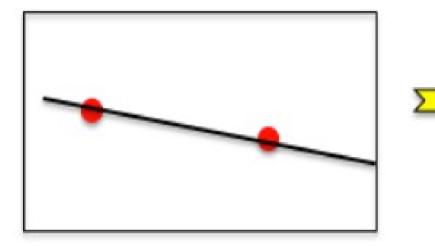
$$\hat{f}(\boldsymbol{\xi}) = \int f(\boldsymbol{x}) \exp(2\pi i \langle \boldsymbol{x}, \boldsymbol{\xi} \rangle) d\boldsymbol{x}.$$

$$dF = 0, \quad d * F = 0.$$

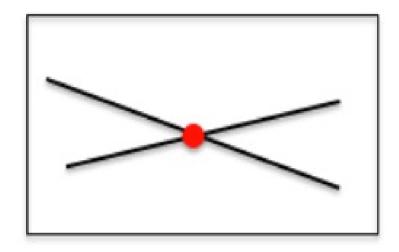
$$(m{ar{E}},m{ar{B}})\mapsto (m{ar{B}},-m{ar{E}})$$

## **Line-Point duality**

Point and linear are dual in projective space



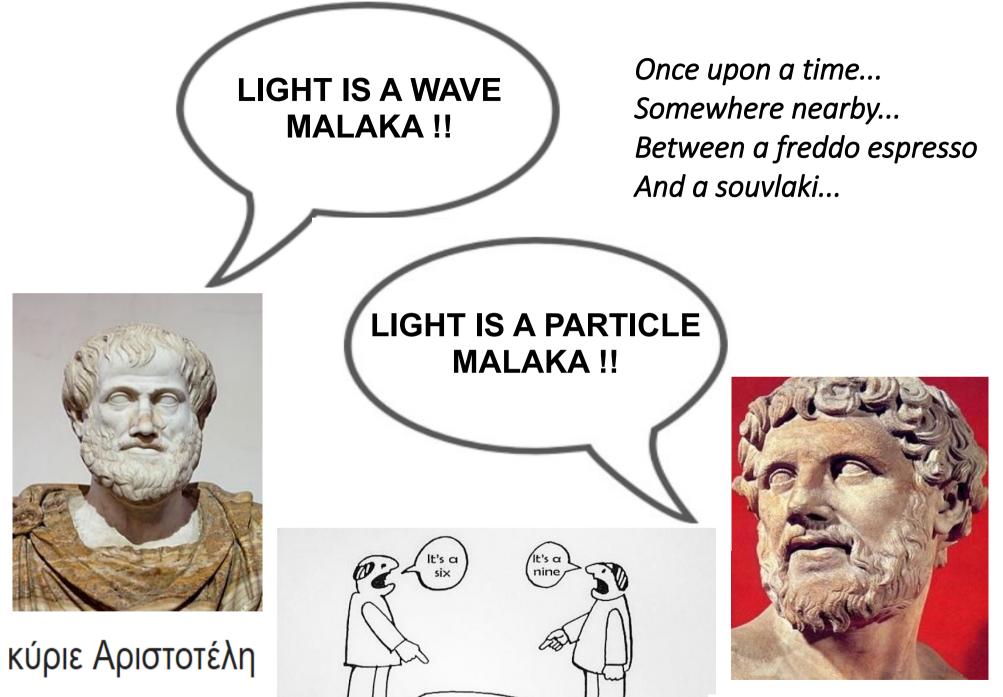




By 2 points, only one line

2 lines intersect in 1 point only

Language of points	Language of lines	
Point	Lines	
Collinear	Coincident	
Are joined	Intersect into	



### κύριε Δημόκριτος

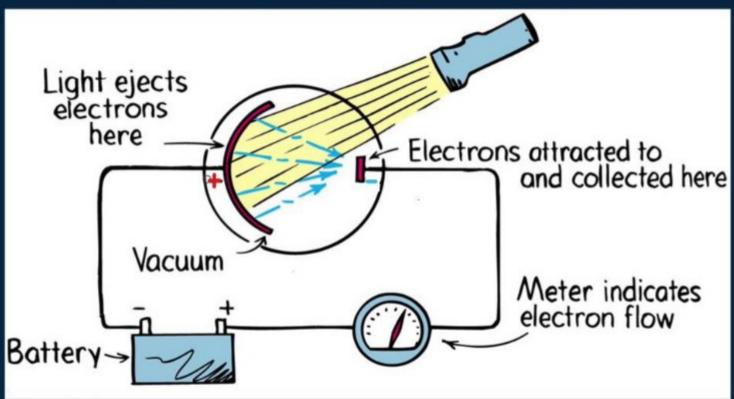


- h = the Plank constant  $6.63 \times 10^{-34} \text{ J s}$
- f = the frequency of the incident light in hertz (Hz)
- &phi = the work function in joules (J)
- E<sub>k</sub> = the maximum kinetic energy of the emitted electrons in joules (J)

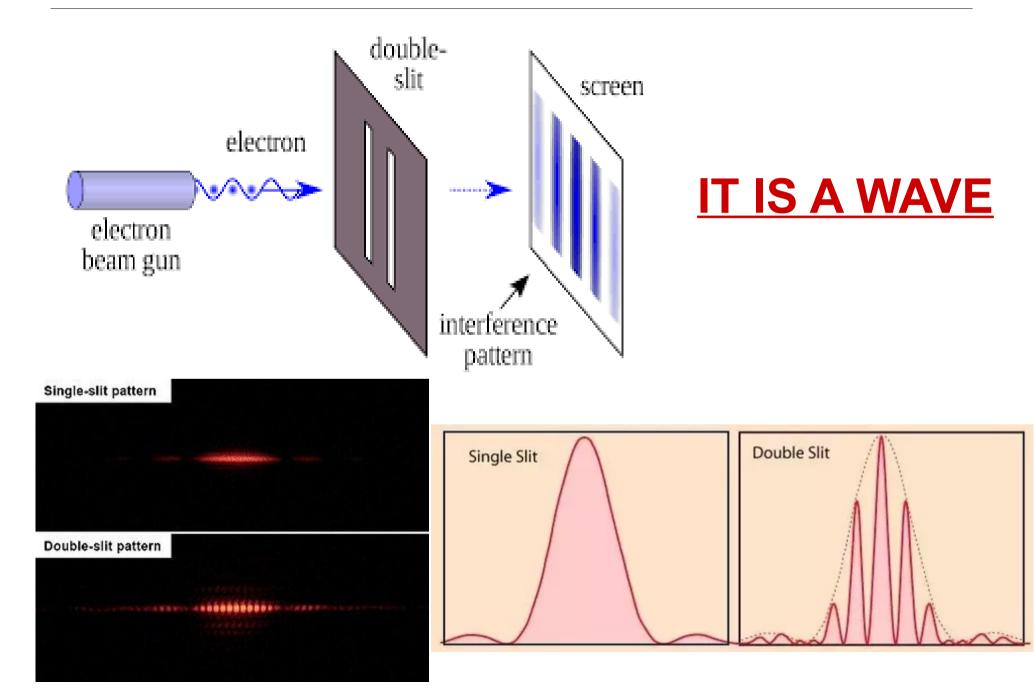
 $hf = \phi + E_k$ 

### **IT IS A PARTICLE**

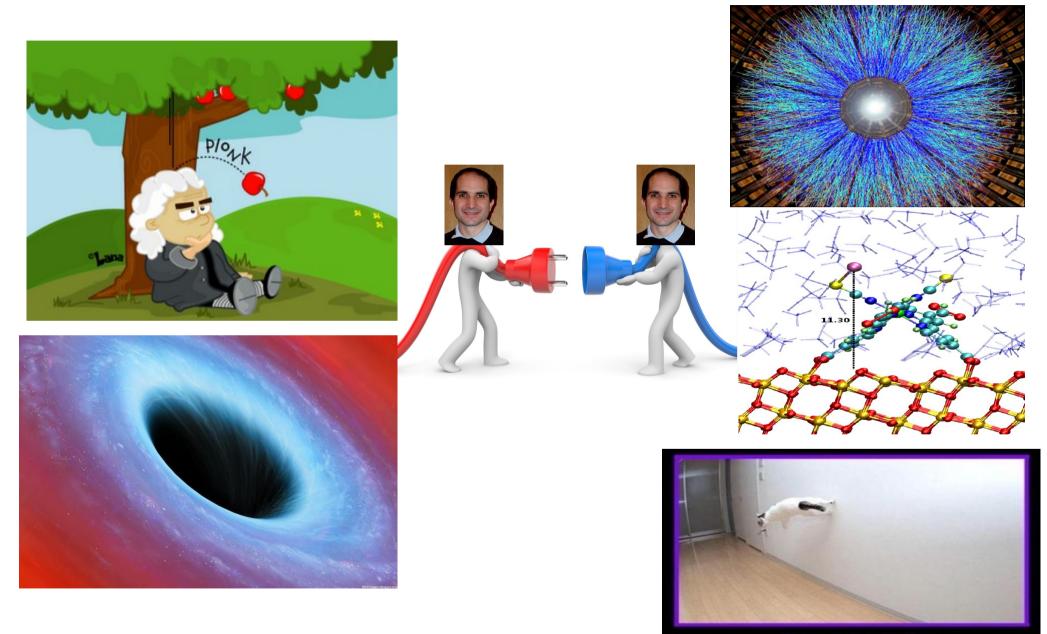
## PHOTOELECTRIC EFFECT



# The double slit experiment

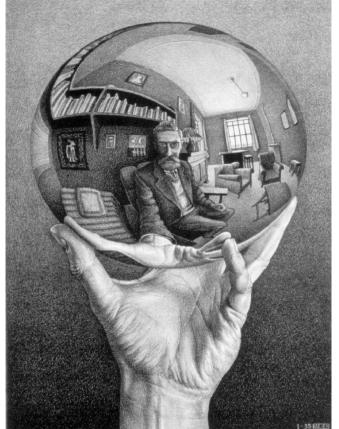


## **AdS-CFT duality**

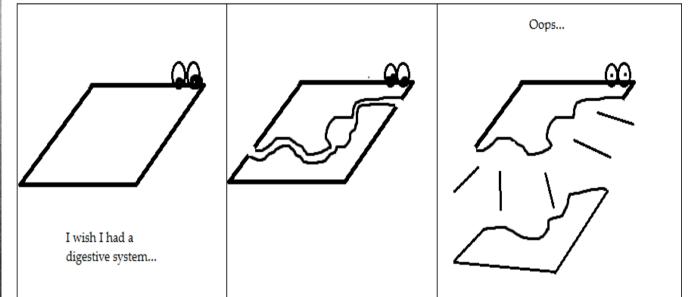


GRAVITY FUCK GRAVITY, I'M A CAT.

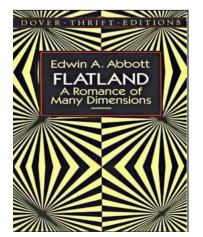
# **Holographic duality**



# The gravity picture lives in one dimension more !!!



# What is really a dimension ???

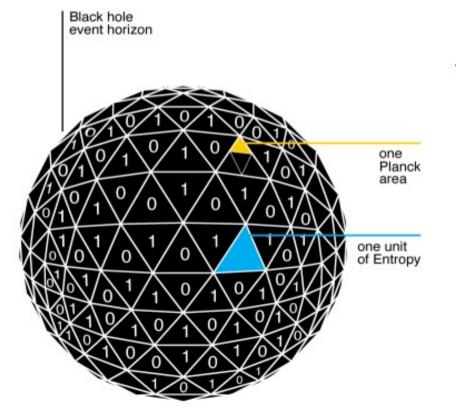


In how many dimensions do we live ???



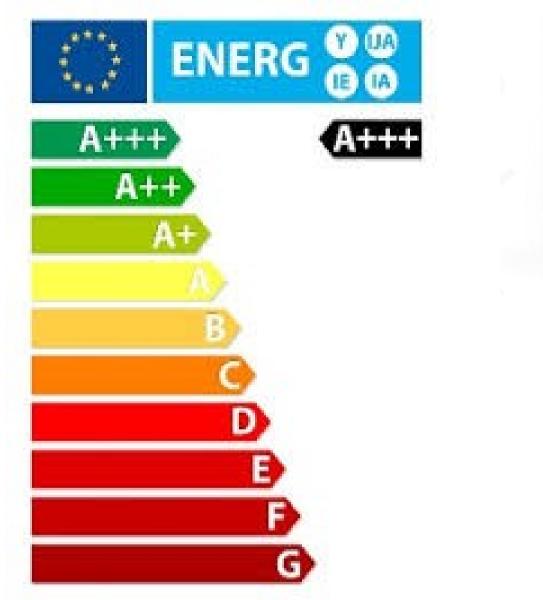
### YOUR FAVORITE HOLOGRAM





## YOUR FAVORITE HOLOGRAM BLACK HOLES

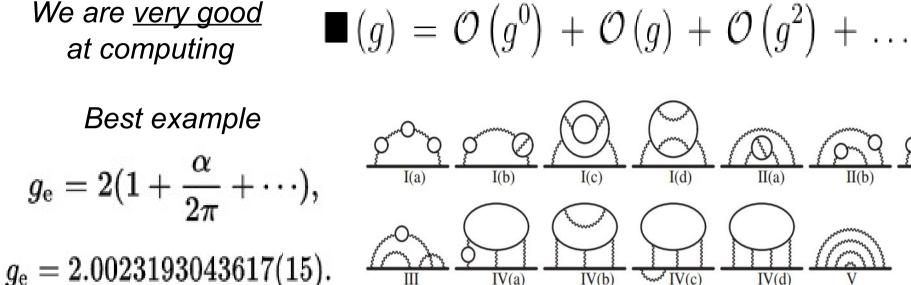


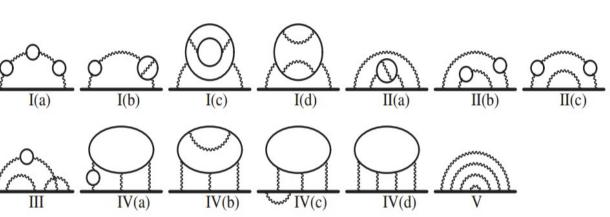




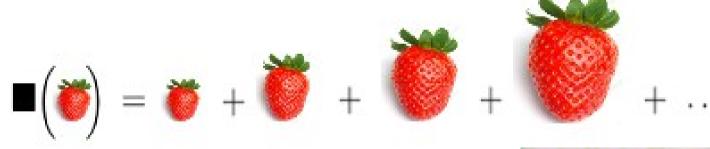
What if energy is actually a dimension like time and space ?

## WHY IT IS USEFUL





But what if the coupling is not small ??



# **STRONG COUPLING**

Standard (usually very efficient) methods are not useful anymore !!





#### **Theme : theoretical physics**

$$S = \frac{1}{16\pi G_N} \int_{\mathcal{M}_5} d^5 x \sqrt{-g} \left[ R + 12 - \frac{1}{2} (\partial \phi)^2 - \frac{1}{4} (1 + \gamma \phi^2) F^2 + \frac{\Delta (4 - \Delta)}{2} \phi^2 - \frac{1}{2} \phi^2 \sum_{I=1}^3 \left\{ \lambda_1 (\partial \psi_I)^2 + \lambda_2 \left( (\partial \psi_I)^2 \right)^2 \right\} \right]$$

## This is a **BLACK HOLE** with electric CHARGE (Yes...the one of **INTERSTELLAR**...)

$$\begin{split} \phi &= 0 \,, \qquad \Sigma = \frac{a(t)}{x} \,, \qquad a_0 = \frac{Q(x_h^2 a(t)^2 - x^2)}{a(t)^3} \,, \\ A &= \frac{1}{2x^2} - \frac{\dot{a}(t)}{xa(t)} + \frac{x^4 Q^2}{6a(t)^6} - \frac{x^2}{a(t)^4} \left(\frac{1}{6}x_h^2 Q^2 + \frac{1}{2x_h^4}\right) \end{split}$$

## IF YOU ARE STILL IN THE ROOM

There is not coffee outside yet .... sorry ! And the door is locked (thanks to the organizers)

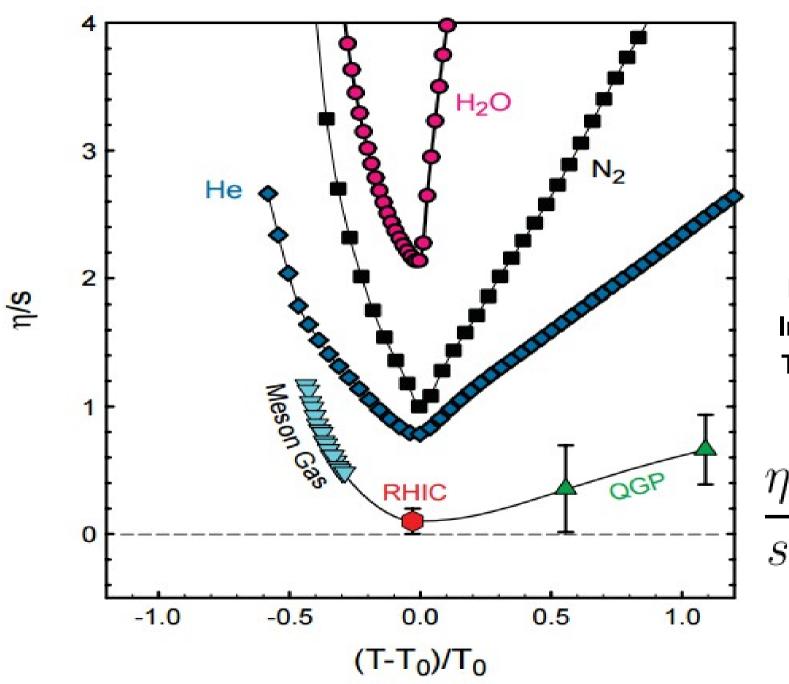
Examples of what we have to solve.....

$$0 = H_0'' + \frac{1}{2}H_0' \left(\ln\frac{AC^3}{B}\right)'$$
  
$$0 = H_1'' + \frac{1}{2}H_1' \left(\ln\frac{AC^3}{B}\right)' + H_0 \left(-\frac{B\phi^2 k^2}{C^2} \left(2k^2\lambda_2 + C\lambda_1\right)\right)$$

#### **Examples of solutions**

$$16\pi G_N \ G = \int_0^{x_h} dx \ \sqrt{\frac{A_{\mathbb{Z}_2} B_{\mathbb{Z}_2}}{C_{\mathbb{Z}_2}}} (\lambda_1 k^2 C_{\mathbb{Z}_2} + 2k^4 \lambda_2) \phi^2$$
$$\frac{\eta}{\mathcal{S}} = \frac{1}{4\pi} \left( 1 - \int_0^{x_h} dx \ \sqrt{\frac{A_{\mathbb{Z}_2} B_{\mathbb{Z}_2}}{C_{\mathbb{Z}_2}}} (\lambda_1 k^2 C_{\mathbb{Z}_2} + 2k^4 \lambda_2) \phi^2 \left\{ \int_0^x dy \ \sqrt{\frac{A_{\mathbb{Z}_2} B_{\mathbb{Z}_2}}{C_{\mathbb{Z}_2}^3}} \right\} \right)$$

## NATURE WRITTEN IN MATH LANGUAGE



Cit. Galileo Galilei

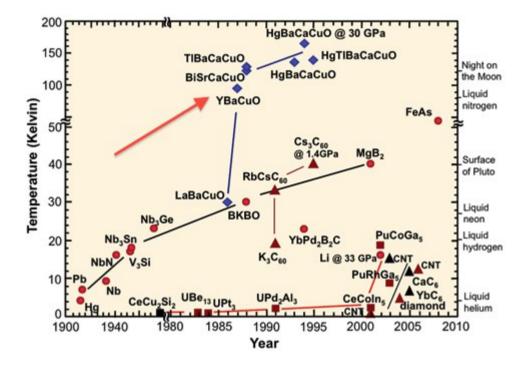


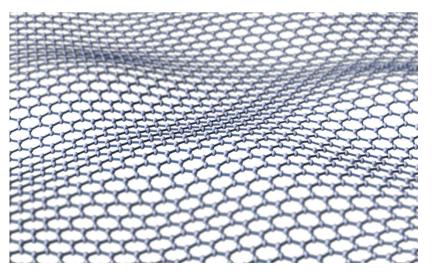
From a Black Hole In extra dimensions To the water in our Potiria !!

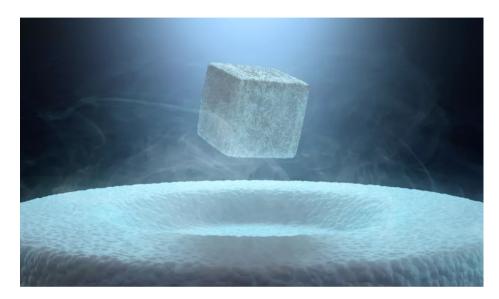
 $\frac{\eta}{s} \ge \frac{1}{4\pi} \frac{\hbar}{k_B}$ 

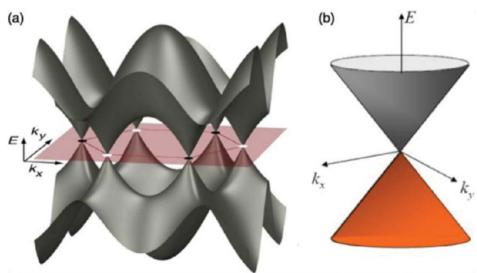
**KSS BOUND** 

## E-XAMPLES









#### LOT OF SOLUTIONS FOR TECHNOLOGY

## BY DROPPING MY IPHONEONIT

**I BROKE MY IPAD** 



### Superconducting quantum computing

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Superconducting quantum computing is an implementation of a quantum computer in superconducting electronic circuits. Research in superconducting quantum computing is conducted by Google<sup>[1]</sup>, Microsoft<sup>[2]</sup>, IBM<sup>[3]</sup> and Intel.<sup>[4]</sup> Up to nine fully controllable qubits are demonstrated in a 1D array,<sup>[5]</sup> up to sixteen in a 2D architecture.<sup>[3]</sup>

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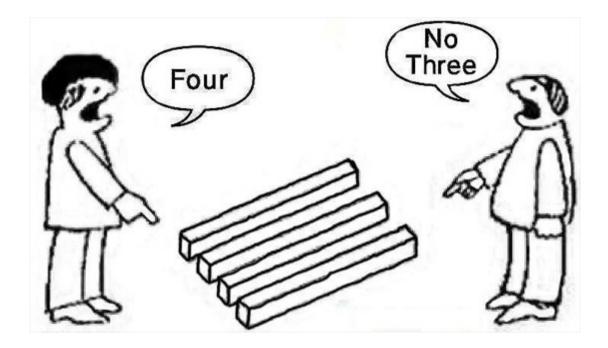
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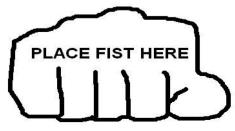
## "PEOPLE WHO THINK DIFFERENTLY SOLVE PROBLEMS SMARTER THAN PEOPLE WHO THINK ALIKE."



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Emotion. 2015 Feb;15(1):1-5. doi: 10.1037/emo00000017. Epub 2014 Aug 11. Warm thanks: gratitude expression facilitates social affiliation in new relationships via perceived		
warmth. Williams LA <sup>1</sup> , Bartlett MY <sup>2</sup> .	Save items  Add to Favorites	
Abstract Recent theorizing on the nature and function of gratitude (the find-remind-and-bind theory; Algoe, 2012) stipulates that expressing gratitude should serve to alert previously unacquainted peers to the potential for a high-quality social bond (i.e., a find function). Although the logic of this premise is supported by extant research, it has not, as yet, been tested empirically. In the current study, participants received a note from a previously unacquainted peer that contained an expression of gratitude (or did not) with regard to prior benefits provided by the participant. After providing ratings of the peer and ostensibly completing the study, participants were given an opportunity to spontaneously give their		
contact information to the peer, which served as a behavioral measure of affiliation. In line with the proposed find function of gratitude expressions, recipients of expressions of gratitude were more likely to extend the effort to continue the relationship with the novel peer by providing that peer with a means to contact them. This experiment also provided evidence that perceptions of interpersonal warmth (e.g., friendliness, thoughtfulness) serve as the mechanism via which gratitude expressions facilitate affiliation: insofar as gratitude expressions signaled interpersonal warmth of the expresser, they prompted investment in the burgeoning social bond. As such, these findings provide the first empirical evidence regarding 1 of the 3 central premises of the find-remind-and-bind theory of gratitude (Algoe, 2012) in the context of novel relationships.	Expressing gratitude to a partner leads to more relationship maintenance behavic [Emotion. 2011] Review Gratitude and well-being: a review and theoretical integration. [Clin Psychol Rev. 2010] Review Does gratitude enhance prosociality?: A meta-analytic review. [Psychol Bull. 2017]	

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