



ISYA 2018

41th International School
for Young Astronomers
Socorro, Santander-Colombia



“Once upon a time...the science”

Ysabel Briceño y Héctor Rago

@ysabelbr

@hectorrago



CONTENT

The popularization paradox: The Sábato's Parable

A historical / personal view

Our personal experience: Astronomía Al Aire

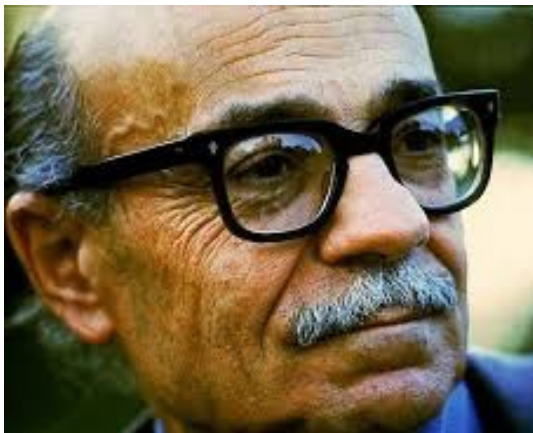


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Is efficient popularization of science?



Sábato's paradoxe



EDUCACIÓN »

Un 25% de los españoles cree que el Sol gira alrededor de la Tierra

Una encuesta oficial constata el analfabetismo científico de la población, pese a que la situación ha mejorado en los últimos años

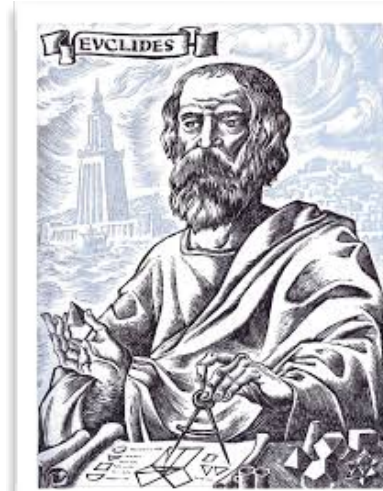


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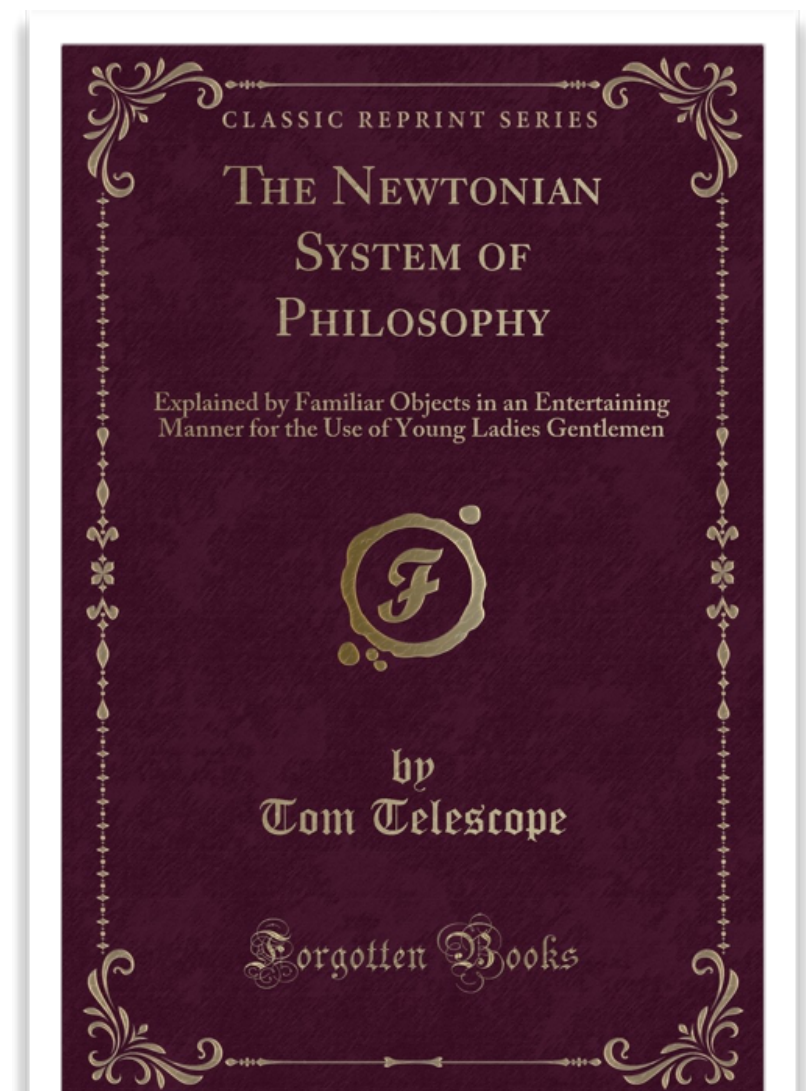
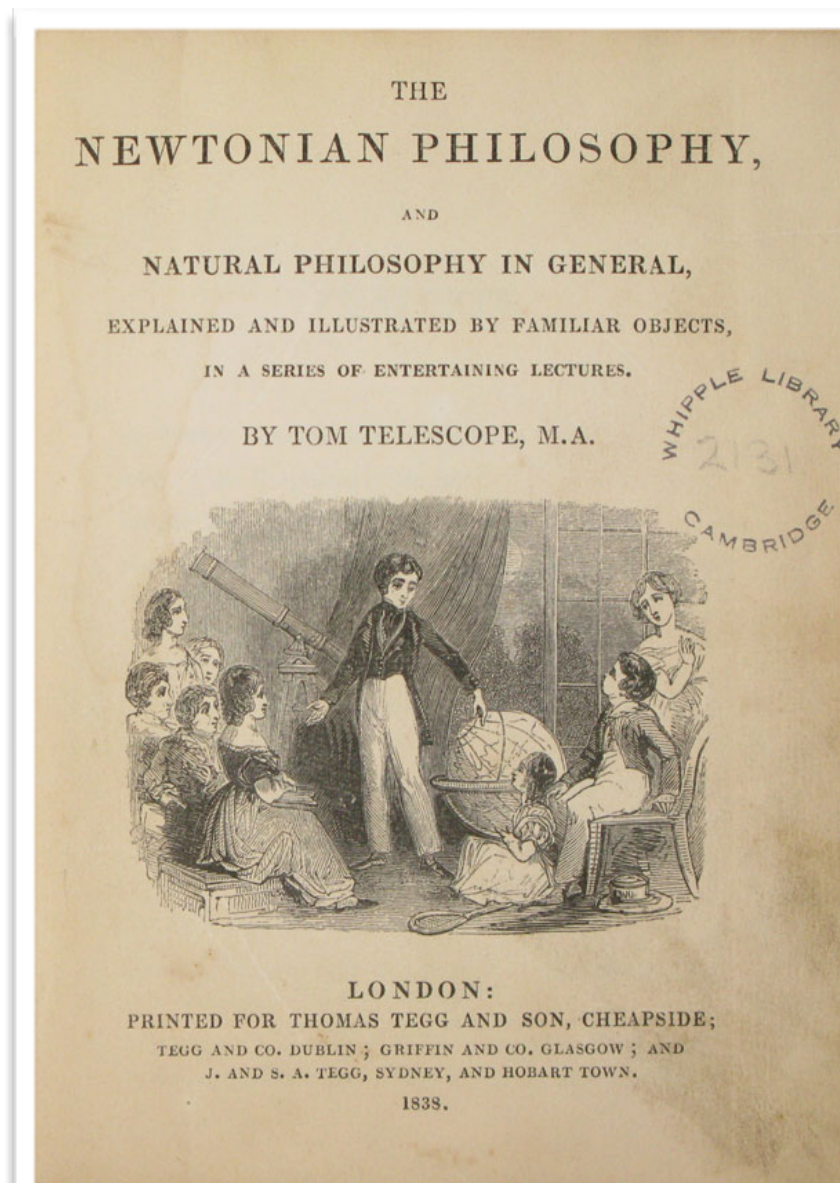
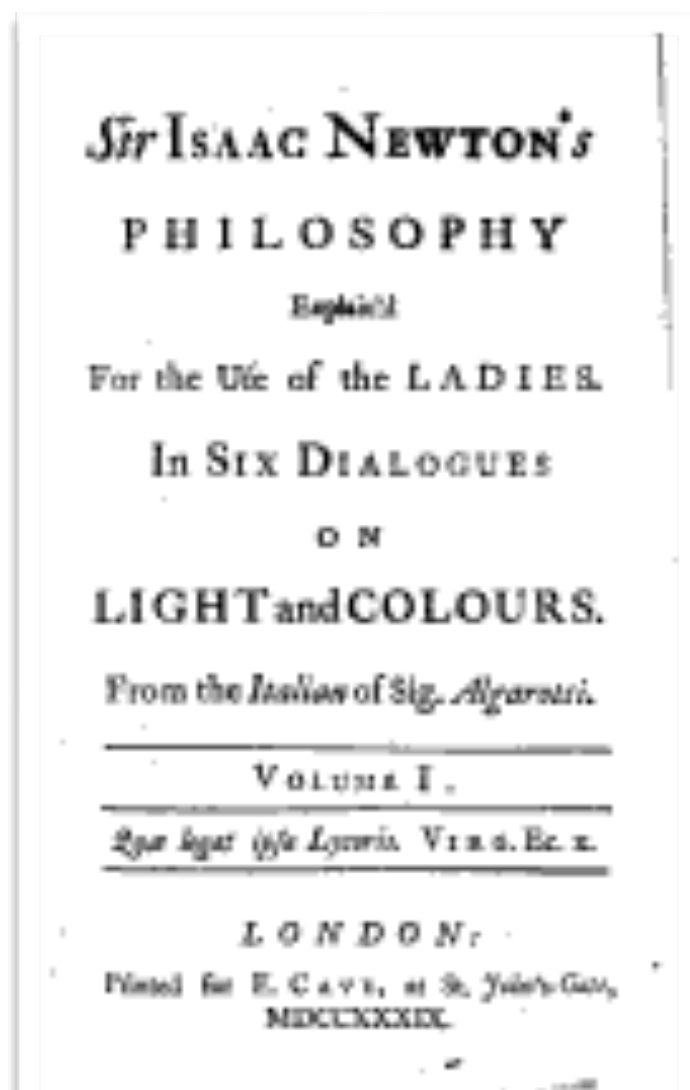
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“There is no real road for geometry...”
[Euclid to Ptolemy ~ 285BC]



The post-newtonian
~ 1760



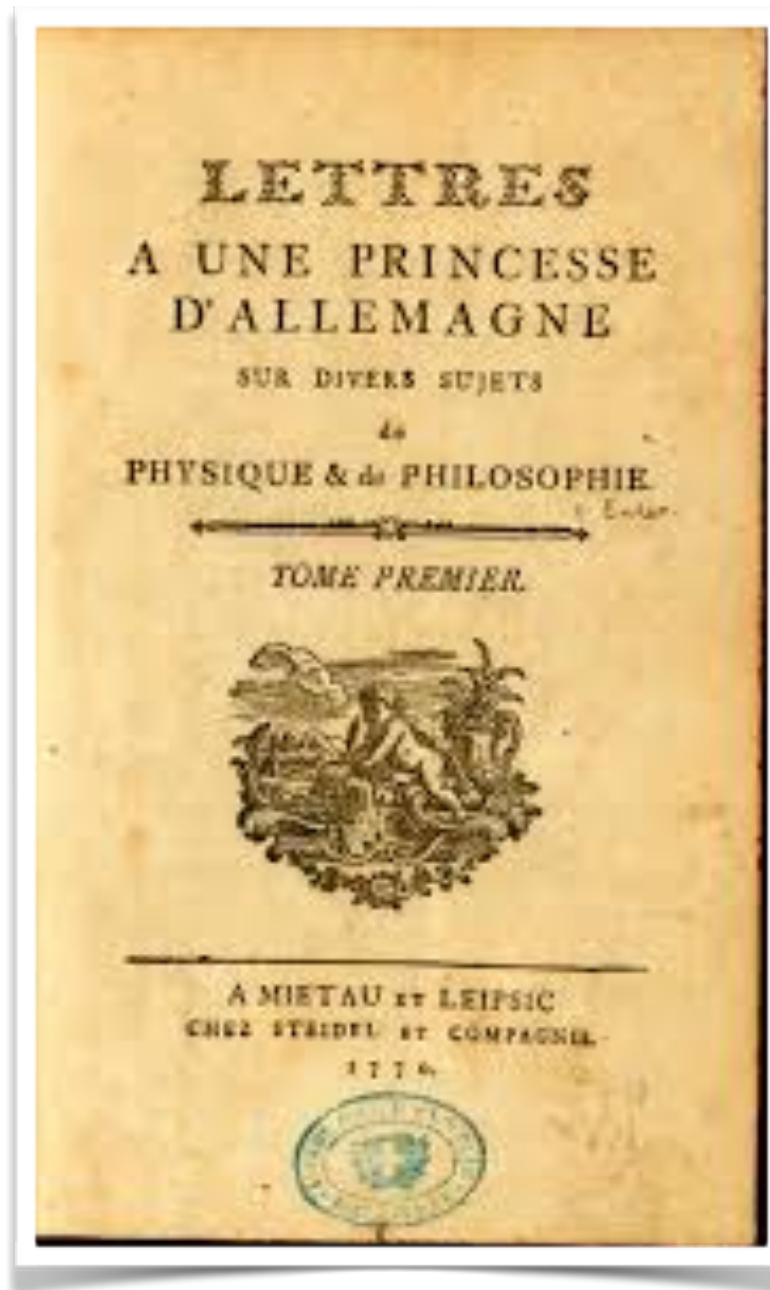


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Leonhard Euler
~ 1760





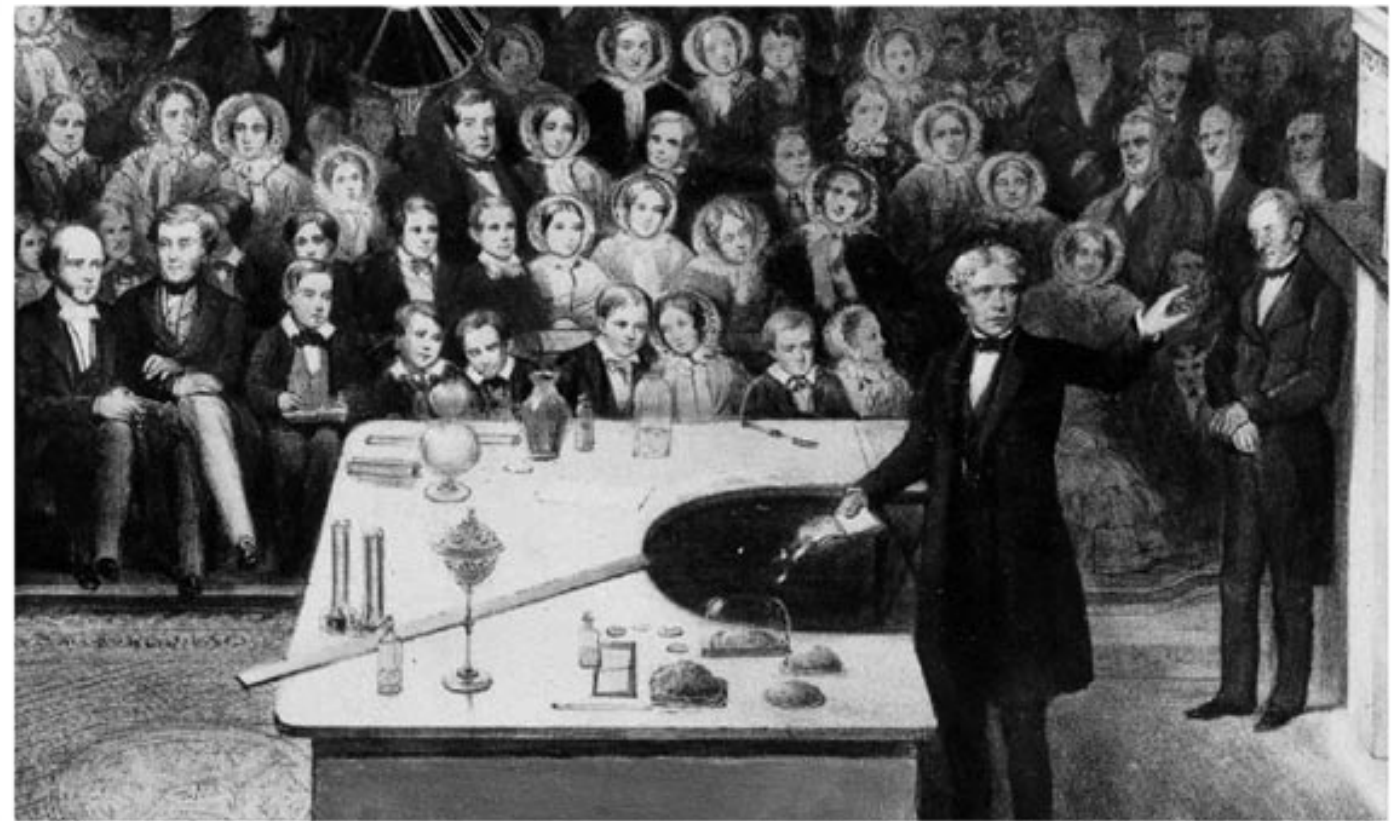
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Michel Faraday

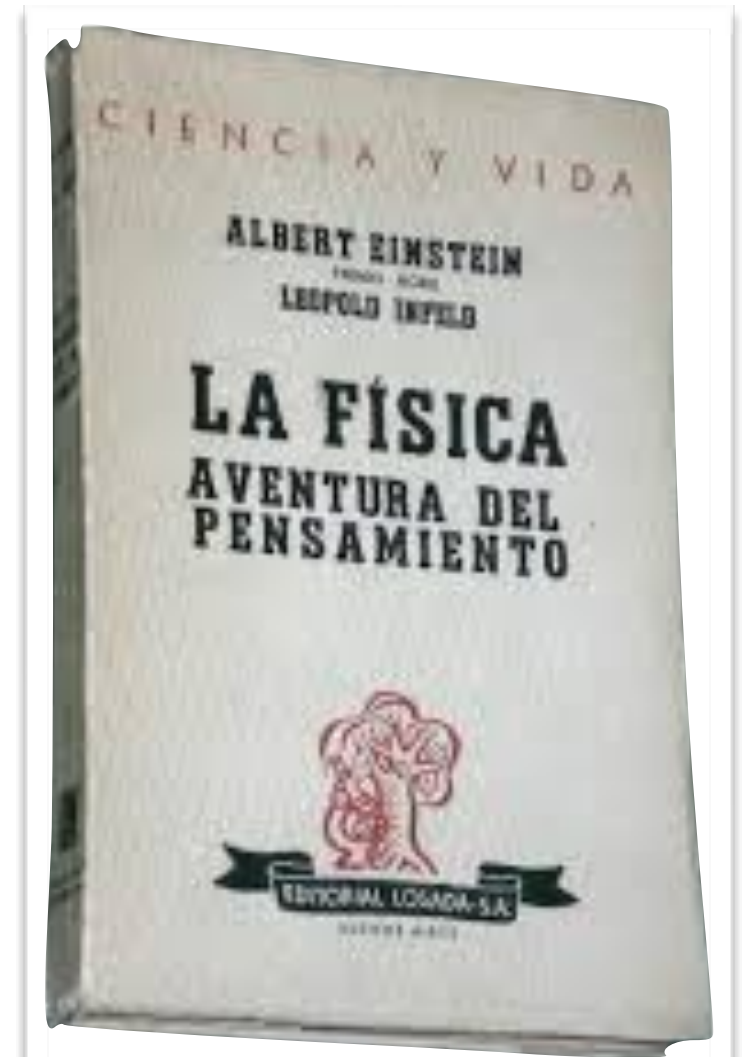
Friday Evening
Discourses at the Royal Institution
~ 1826



Einstein in Argentina



1932

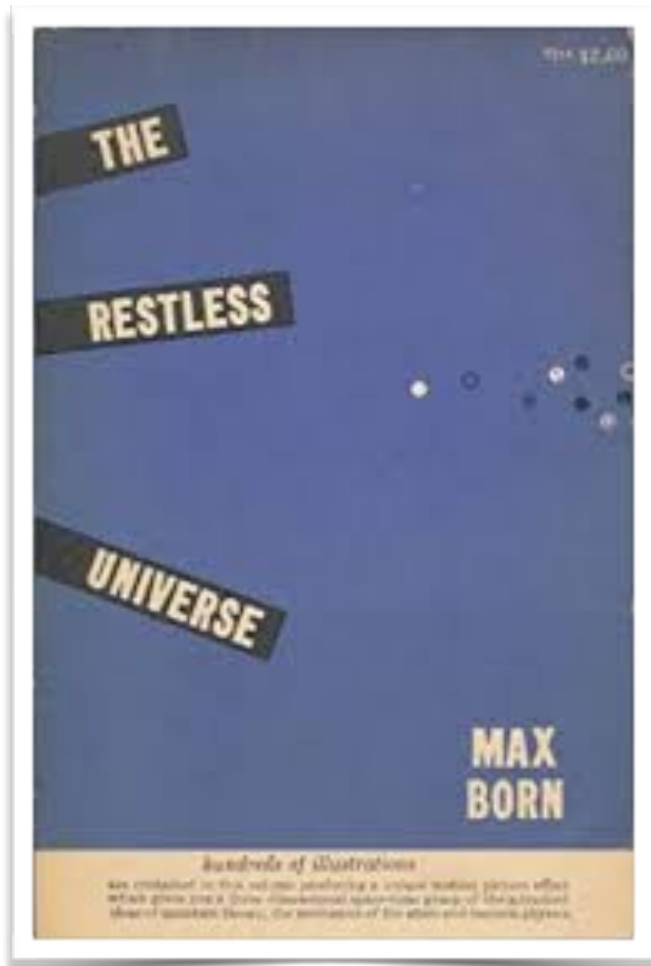


1938



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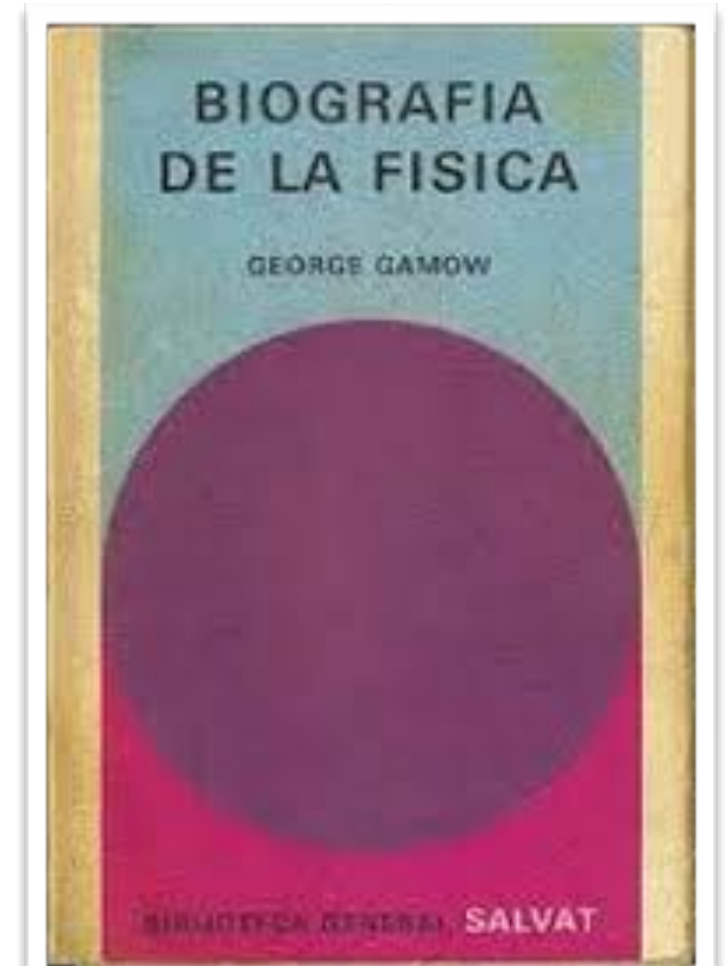
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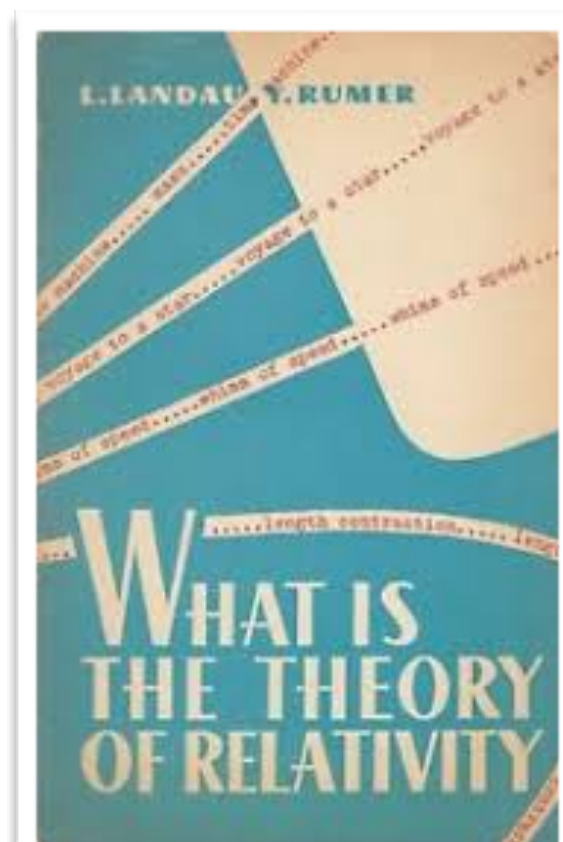
Max Born 1951



George Gamow



George Gamow

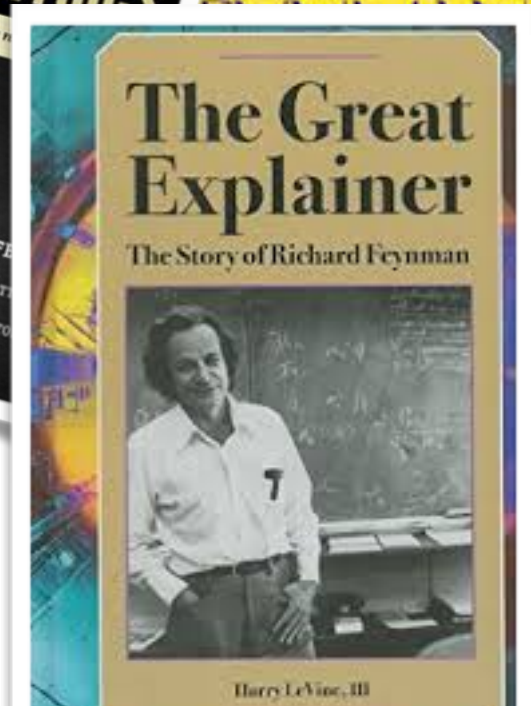
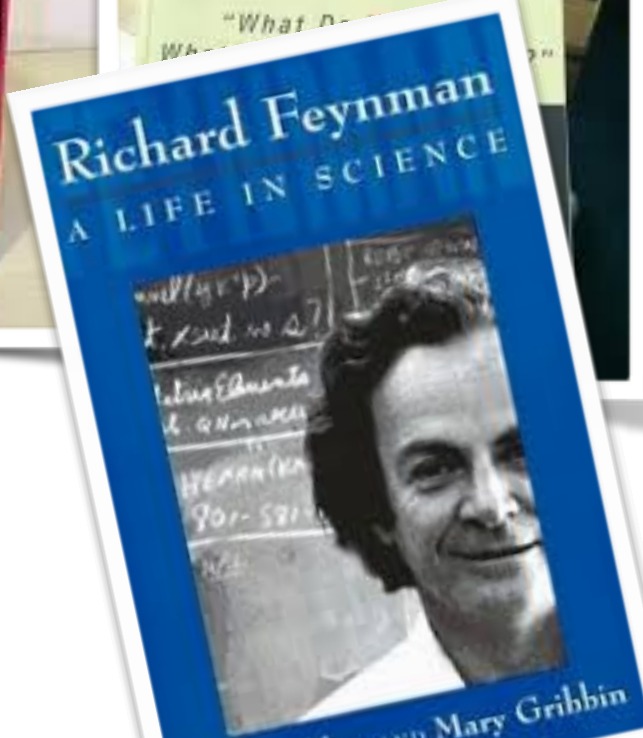
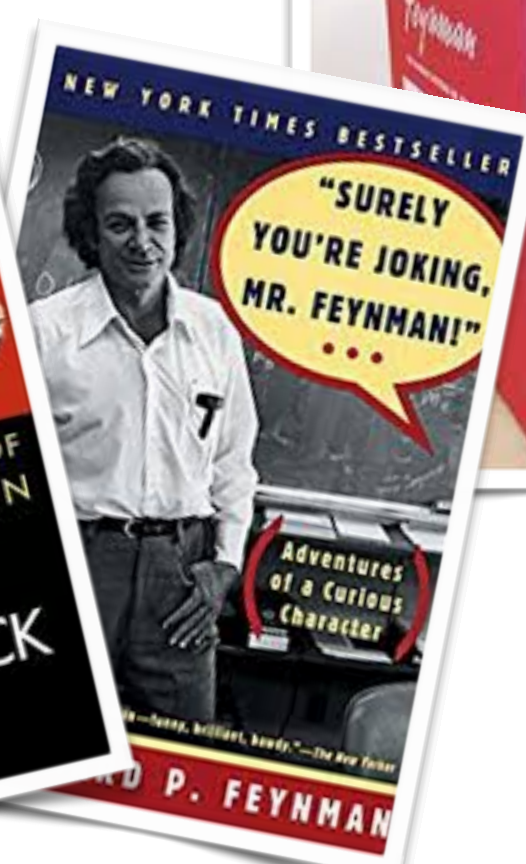
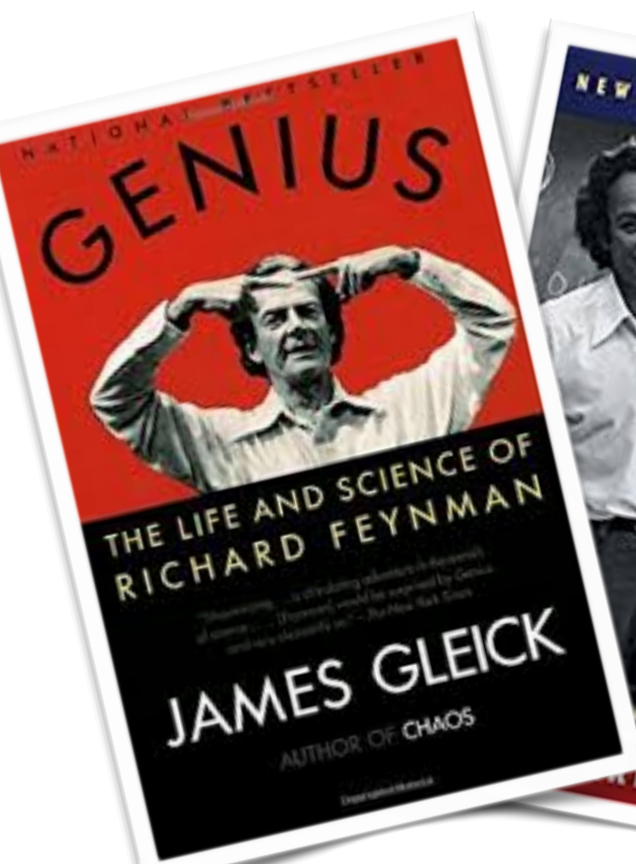
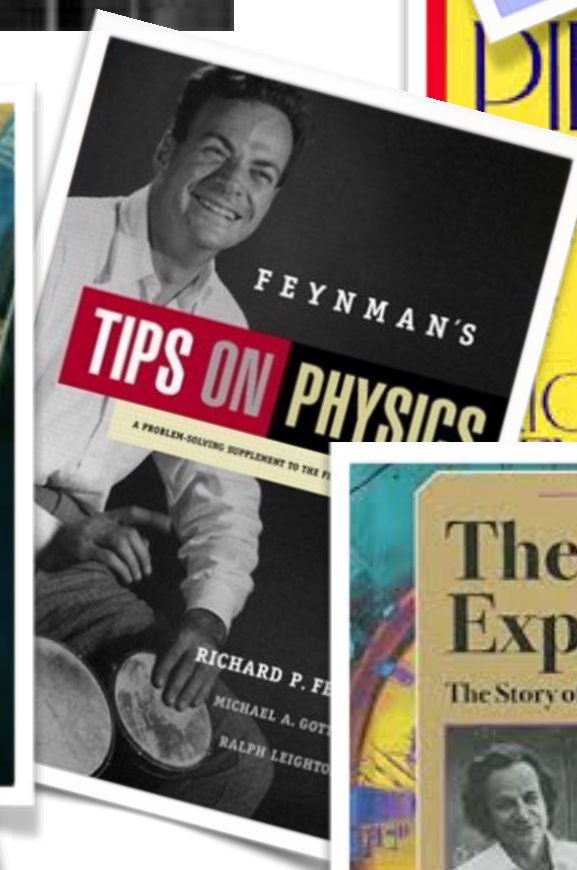
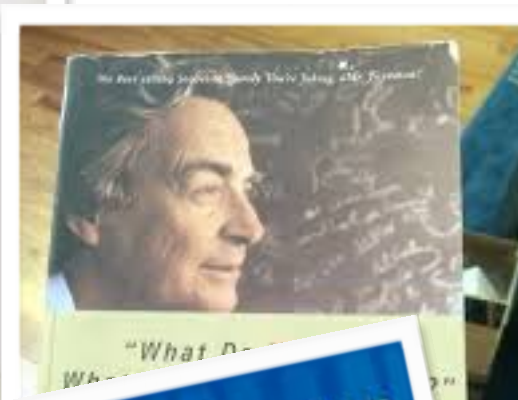
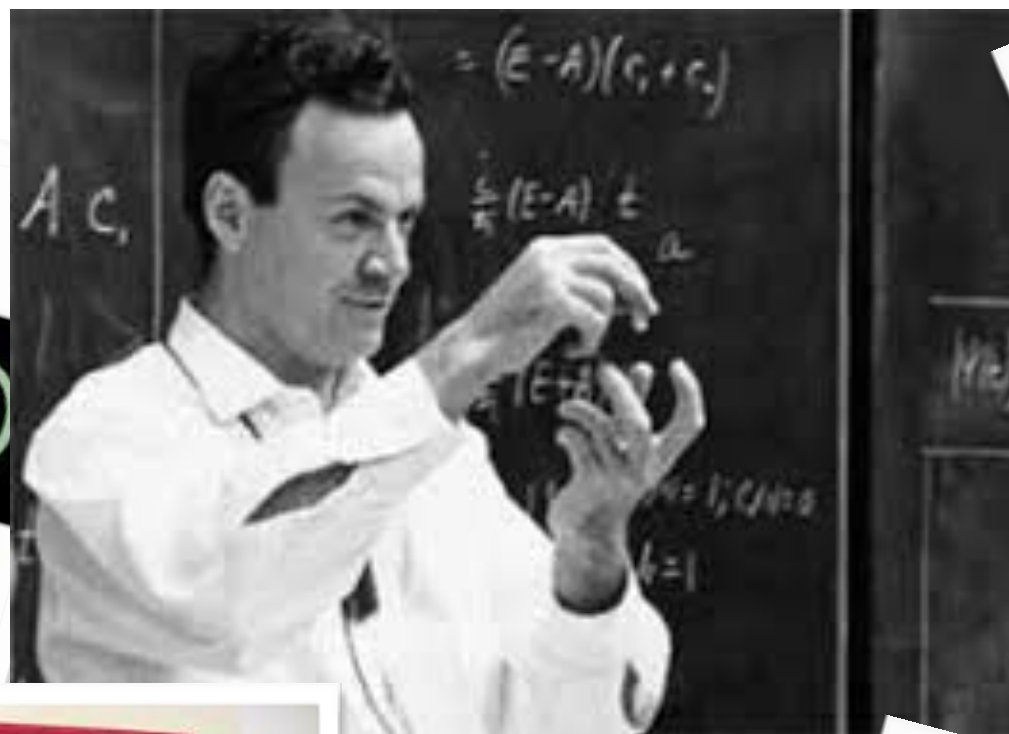
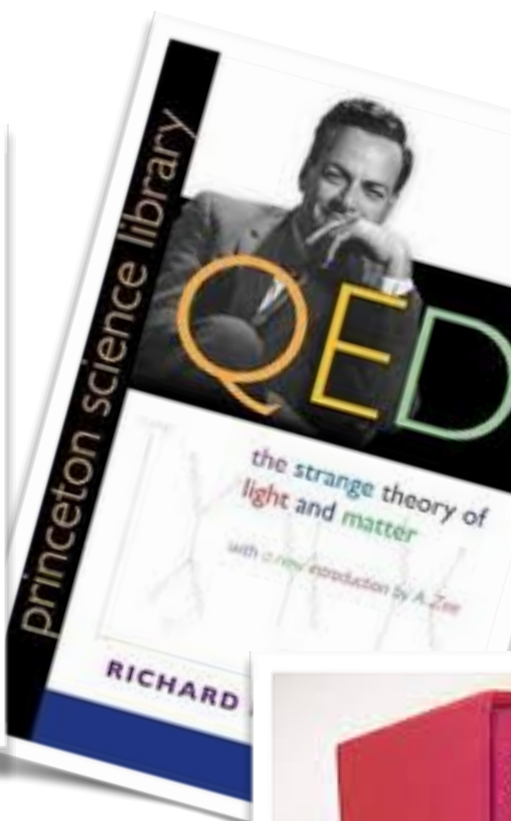
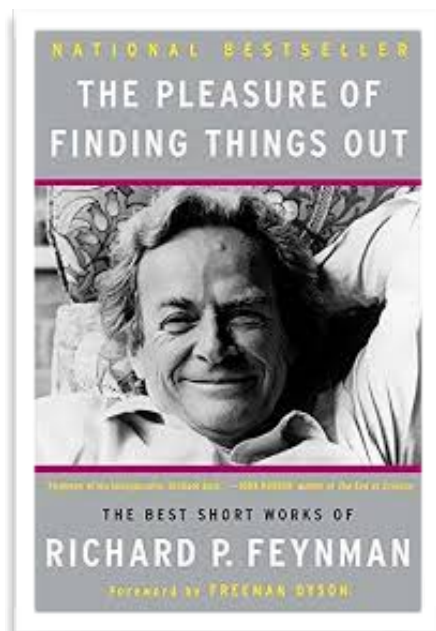


Lev Landau



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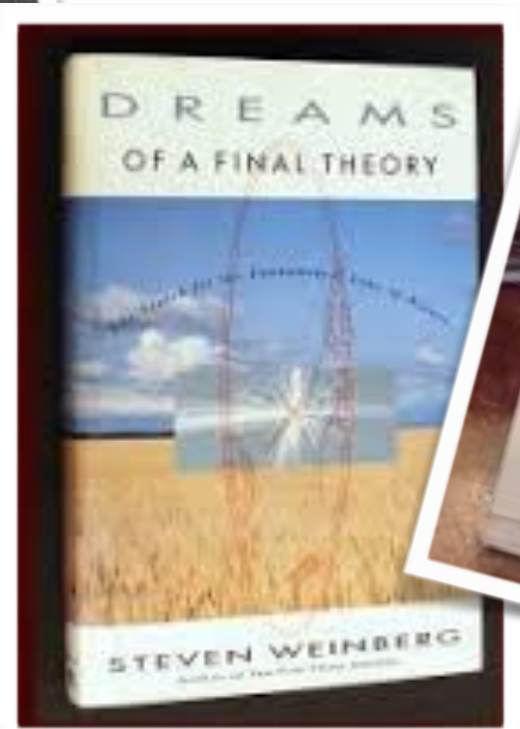
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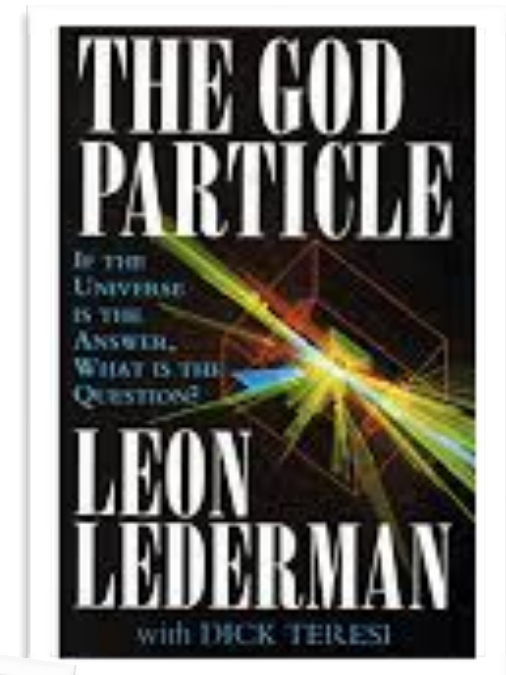
The American connexion



Steven Weinberg



Carl Sagan



Leo Lederman



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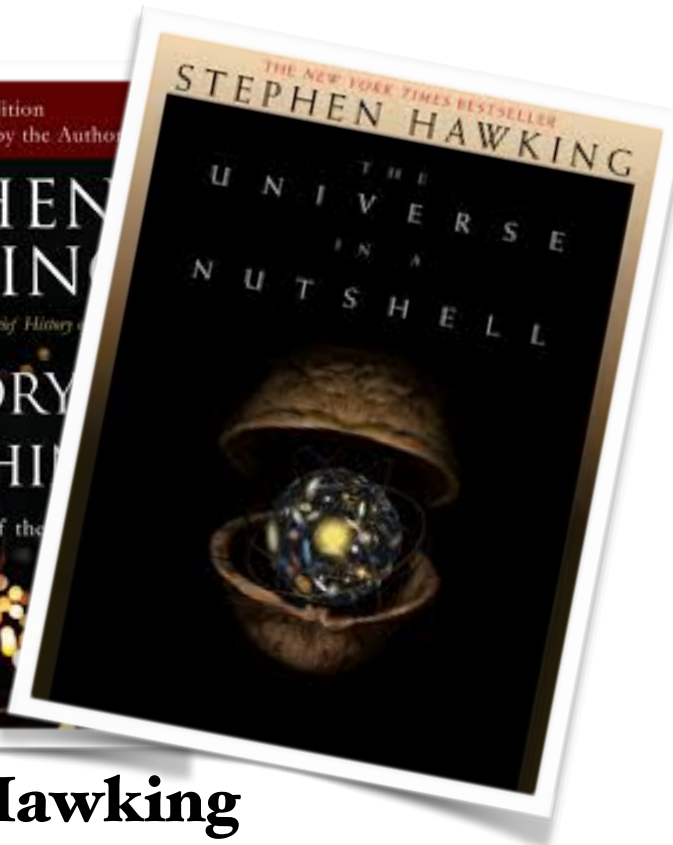
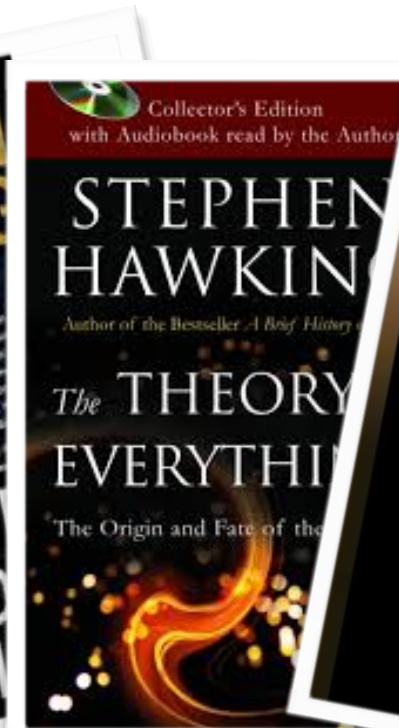
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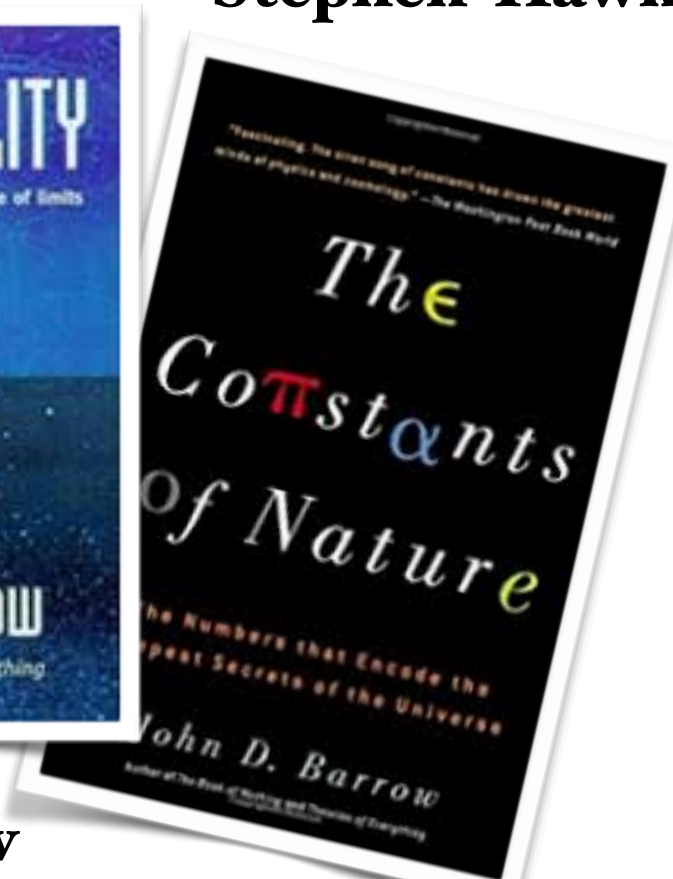
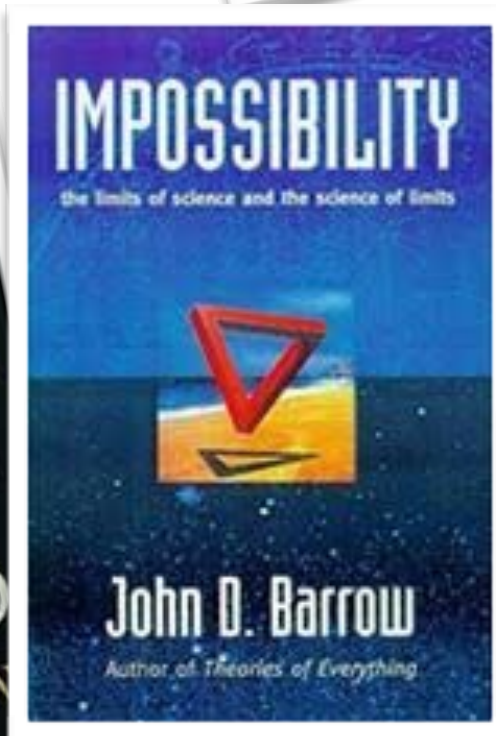
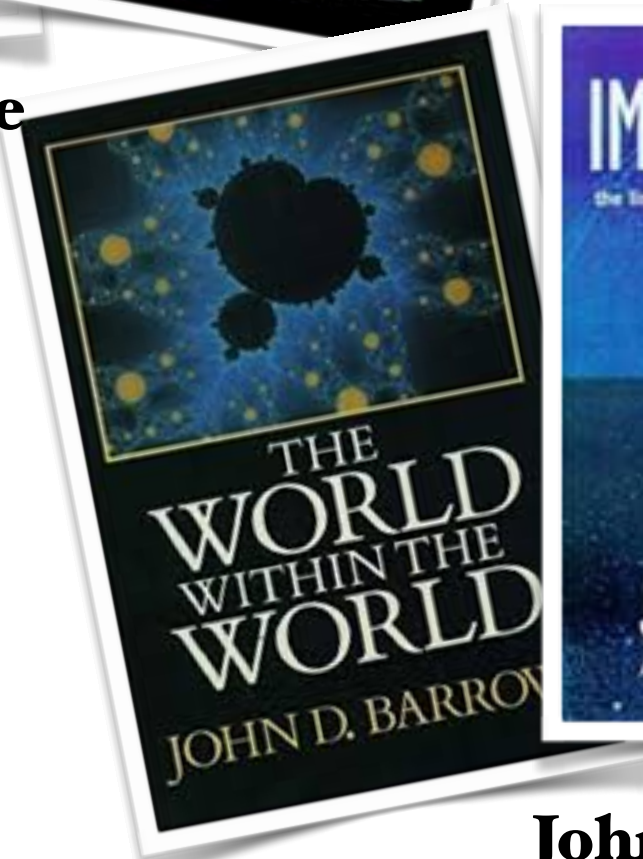
The England connexion



Roger Penrose



Stephen Hawking

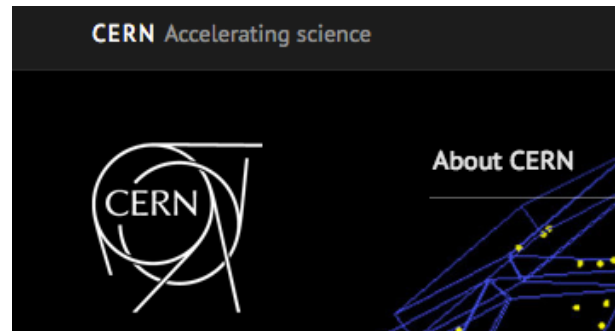


John Barrow

The Internet counter-attack



@NASA



@CERN



@LIGO



@PERIMETER

FaceBook

Universities

MinutePhysics

Youtube

quantumfracture

The physics Girl

Veritasium

Date un Vlog

Neil deGrasse Tyson

Blogs

BackReaction

Not Even Wrong

Science Blogs

Media Convergence

@nunezluis



@hectorrago

Radio Clips

Blog

Podcast

Newspaper

Pocket-books

MicroBlog
Twt - Instagram

~~Radial program~~

~~Video~~



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Post-edition

Music

...

Voice

The scientist

Aim

Non pedagogical

To seduce

Micros

Language

Precise but
non-technical

Metaphorical

Seductive

Attractive

Themes

Astronomy

Cosmology

Basic Theories

Physics

Science

Biographies

Value of Science

Where it is
transmitted



ASECIC (Asociación Española de Cine e
Imagen Científicos) Red Colaborativa
Iberoamericana de Programas
Radiofónicos dedicados a la Ciencia

The entities

SCIENCE

The Figures

Allan Turing,
Marie Curie
Kurt Gödel, Einstein
Richard Feynman,
Ettore Majorana
Emmy Noether, Edwin
Hubble,
Grigori Perelman,
Robert Oppenheimer.
Jocelyn Bell,
Stephen Hawking
Isaac Newton
George Riemann

Gravitational waves
The electron
The neutrino
Supernova
The weight of vacuum
The kilonova
Cosmic radiation
Exoplanets
The photon
The strange case of the
cosmological constant
Extra dimensions
Time, the sculptor
Cosmic rays
The attractive gravity
Let the light be
The strange world of
antimatter

The Beauty of science
Einsteinian lessons
Scientists and charlatans
Myth, religion and science
Price and value of science
The Sokal Affaire
The twin paradox
Science, metaphores and
universes
Music, mathematicians and
crazy
The centennial relativity
Impossibilities
The Olbers paradox
Relativity and GPS
The corners of universe
The music and the irrational
The incestuous relations
between math and physics

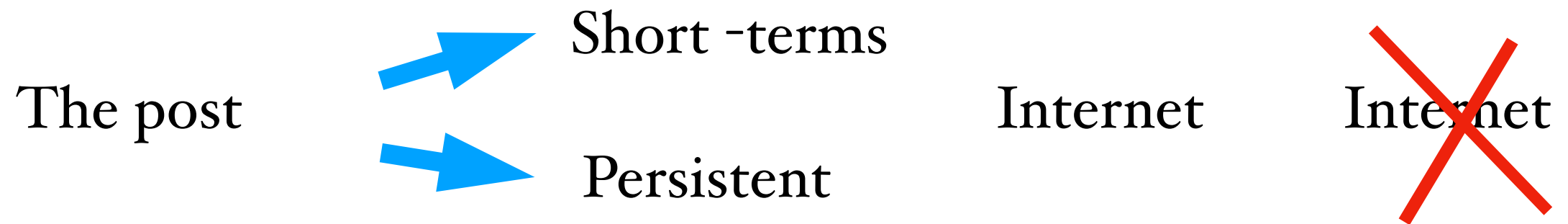


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The construction of a post



The relevance of the first paragraph

La sabiduría convencional suele vislumbrar una relación entre creatividad y locura. Imaginamos a los genios en la triple frontera de la excentricidad, la normalidad y el desorden mental. La idea del “científico loco” es moneda corriente en la cinematografía y en la iconografía cultural de la modernidad. Nos figuramos al matemático de acuerdo con el estereotipo hollywoodense de alguien obsesionado por la búsqueda descabellada de patrones. ¿Existe realmente una correlación entre la aptitud para la abstracción matemática y una propensión al trastorno mental?



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The context

“Eran tiempos convulsos en la Europa de entre guerras, y Viena era un efervescencia intelectual. La música dodecafónica de Schönberg, el psicoanálisis de Freud, la física cuántica de Schrödinger, la influencia de la Bauhaus de Gropius flotaban en la Viena de Wittgenstein. El joven Gödel asistía a los café donde filósofos y matemáticos conocidos como el Círculo de Viena, deslastraban a la filosofía de elementos metafísicos.”



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In the end...

Robert Oppenheimer conoció el pecado, pero su formidable entereza y su carácter complejo y profundo pudieron redimirlo. El 18 de febrero de 1967 el mundo fue un poco más pobre. Robert Oppenheimer había fallecido de un cáncer de garganta.

Along the road: the music

Astor Piazzola
The Beatles
Eric Satie
Xenakis
Salsa
RadioHead
Gilberto Rebolledo
Rick Wakeman
Bjork
Stravinsky
Folk Russian songs

To the four cardinale points

Blog

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Drive

Mail

IG