

# 35 Haiku

about our universe

Bill Sumner

This file contains 30 haiku with illustrations/photos,  
one for each day of the month of April 2016.  
These were posted daily on Twitter @sumnerdad and  
Instagram @wqsumner with the hashtag #NaPoWriMo  
which stands for National Poetry Writing Month.

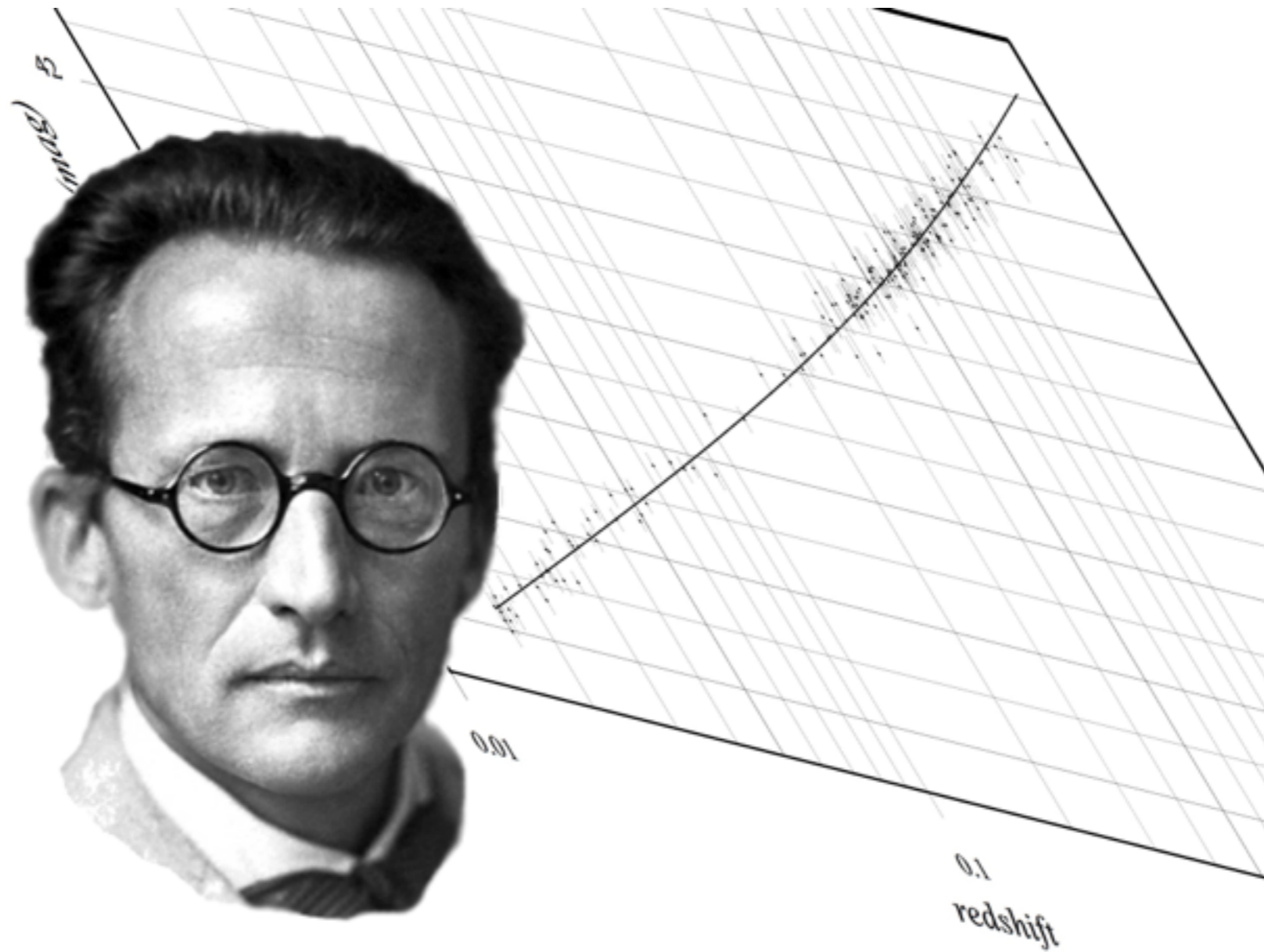
Included are 5 unposted haiku with photos about  
Chirchik (Чирчик), Uzbekistan, Soviet Union.

[Here is the physics link](#)

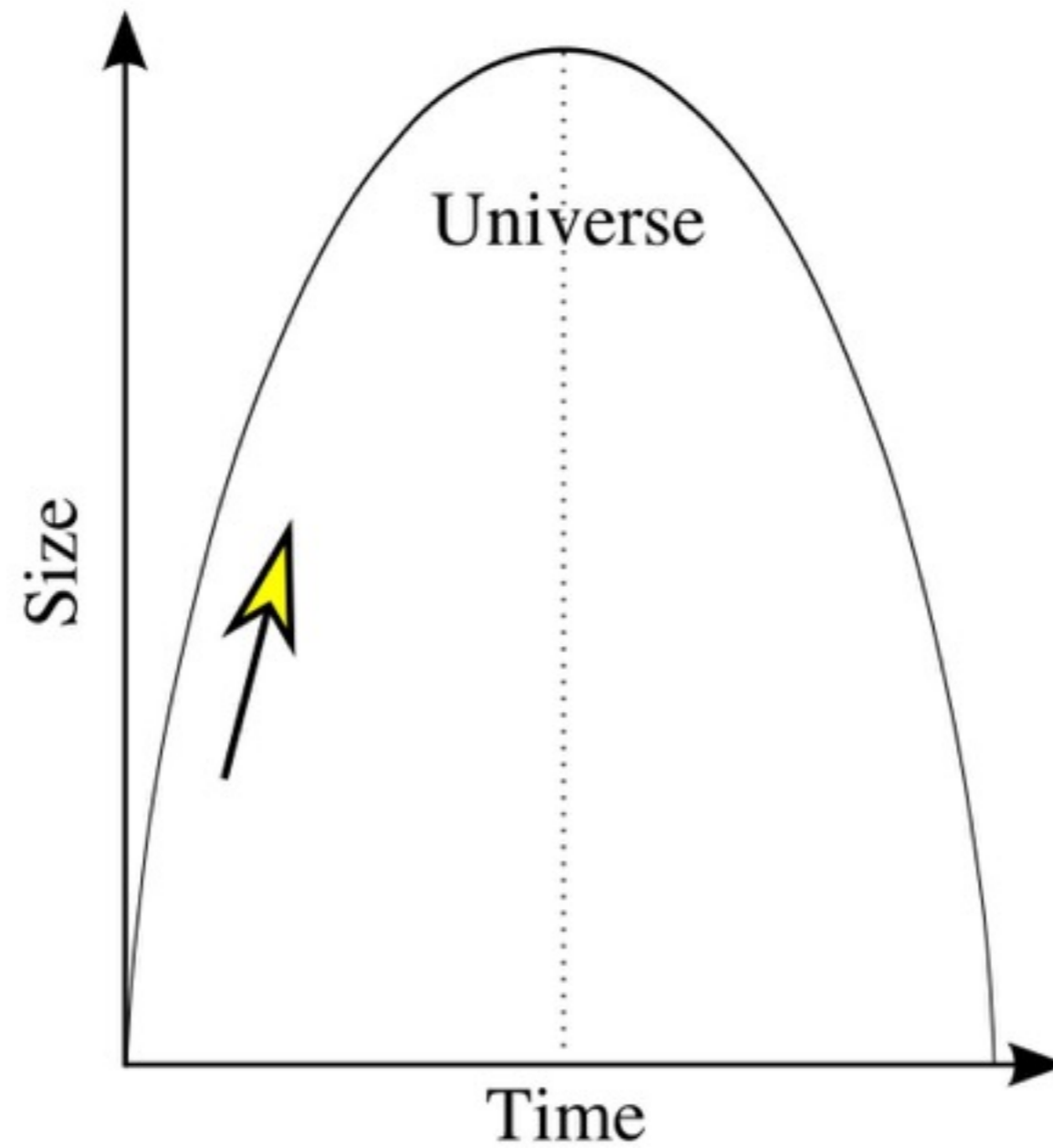
[Here is a link to this file](#)

More links are on the last page

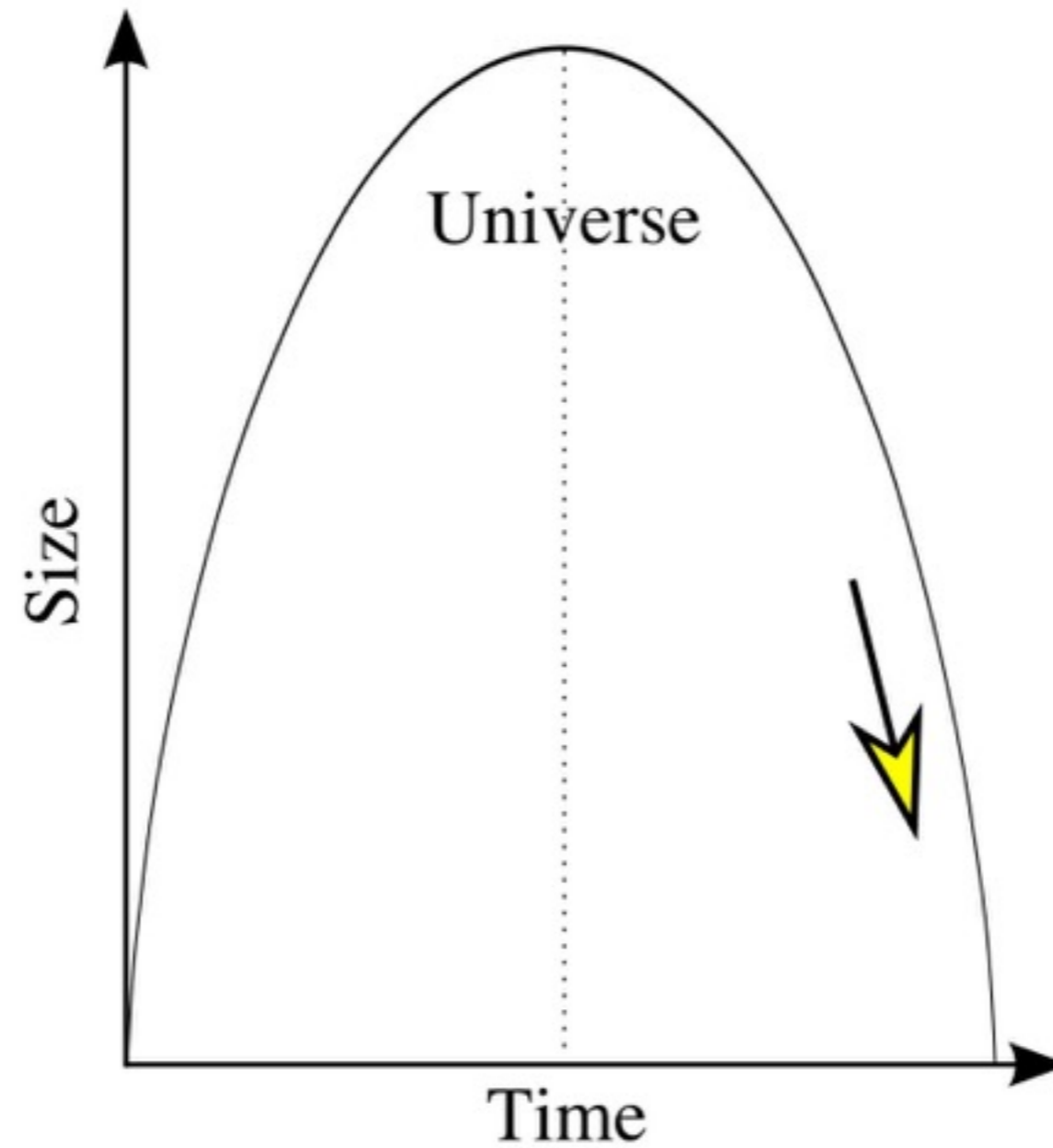
version: May 14, 2016



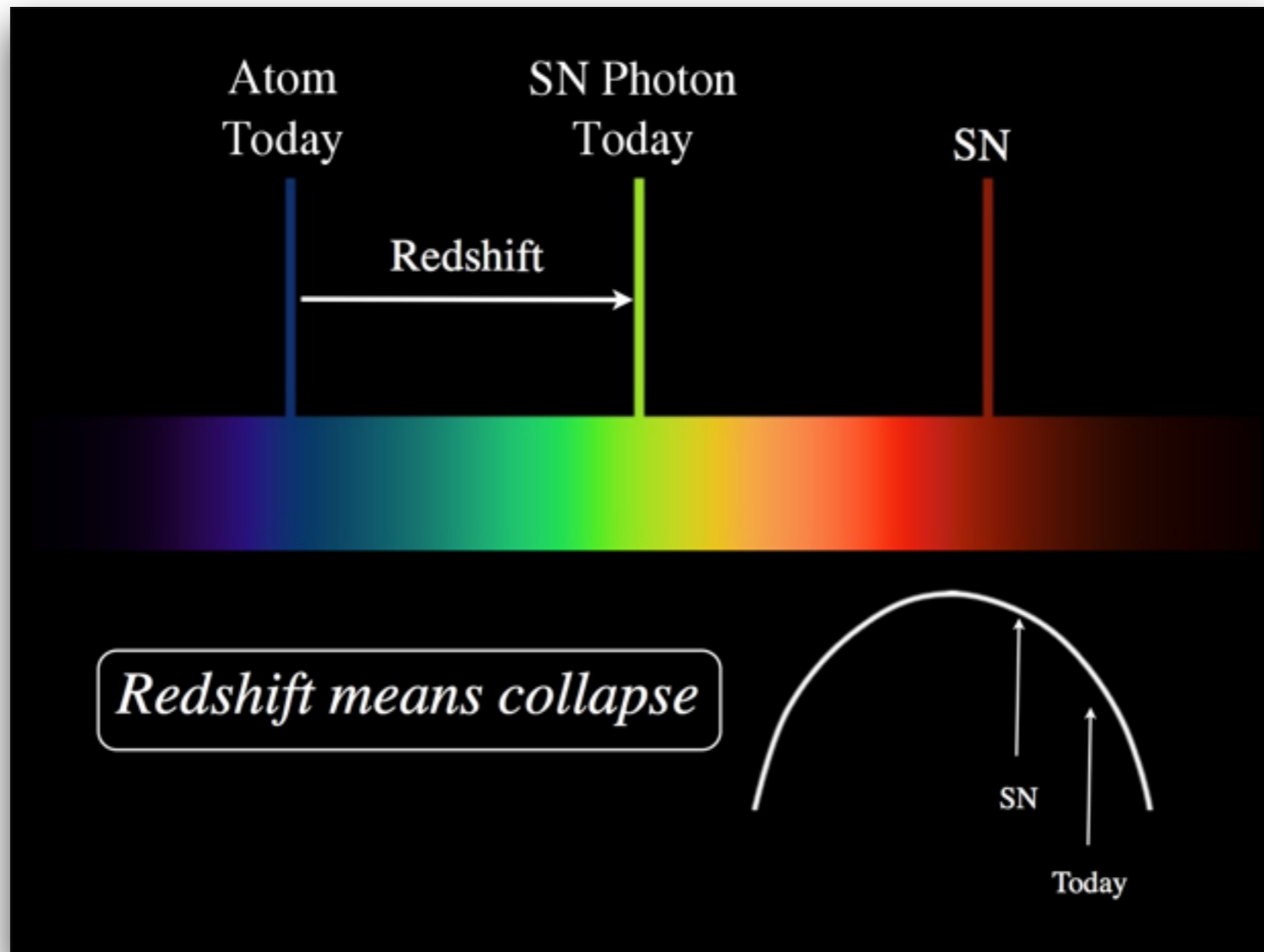
Atoms and photons  
Hubble redshift with Friedmann  
Schrödinger proved it



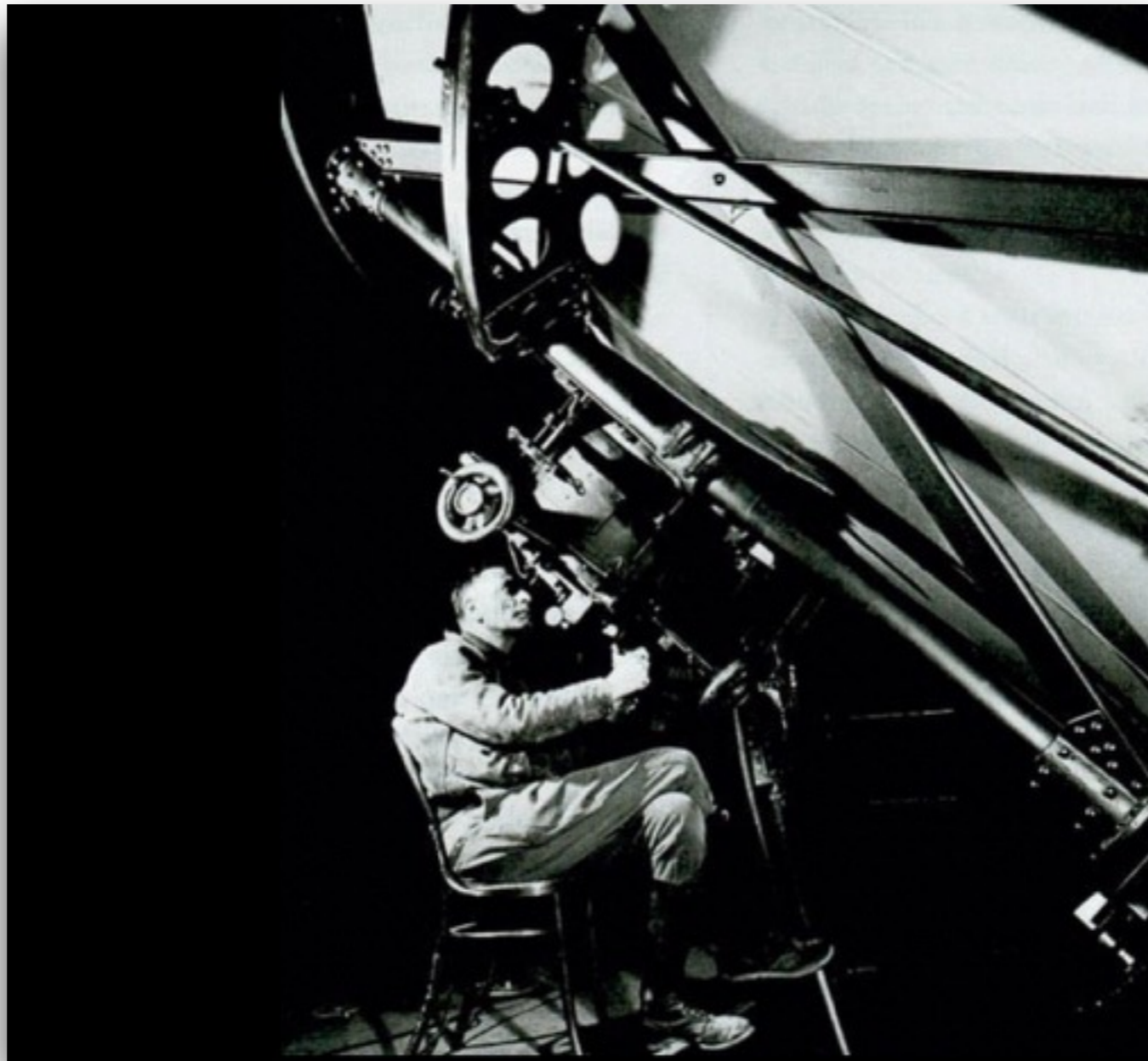
Universe expands  
Atoms and photons expand  
Blueshift is observed



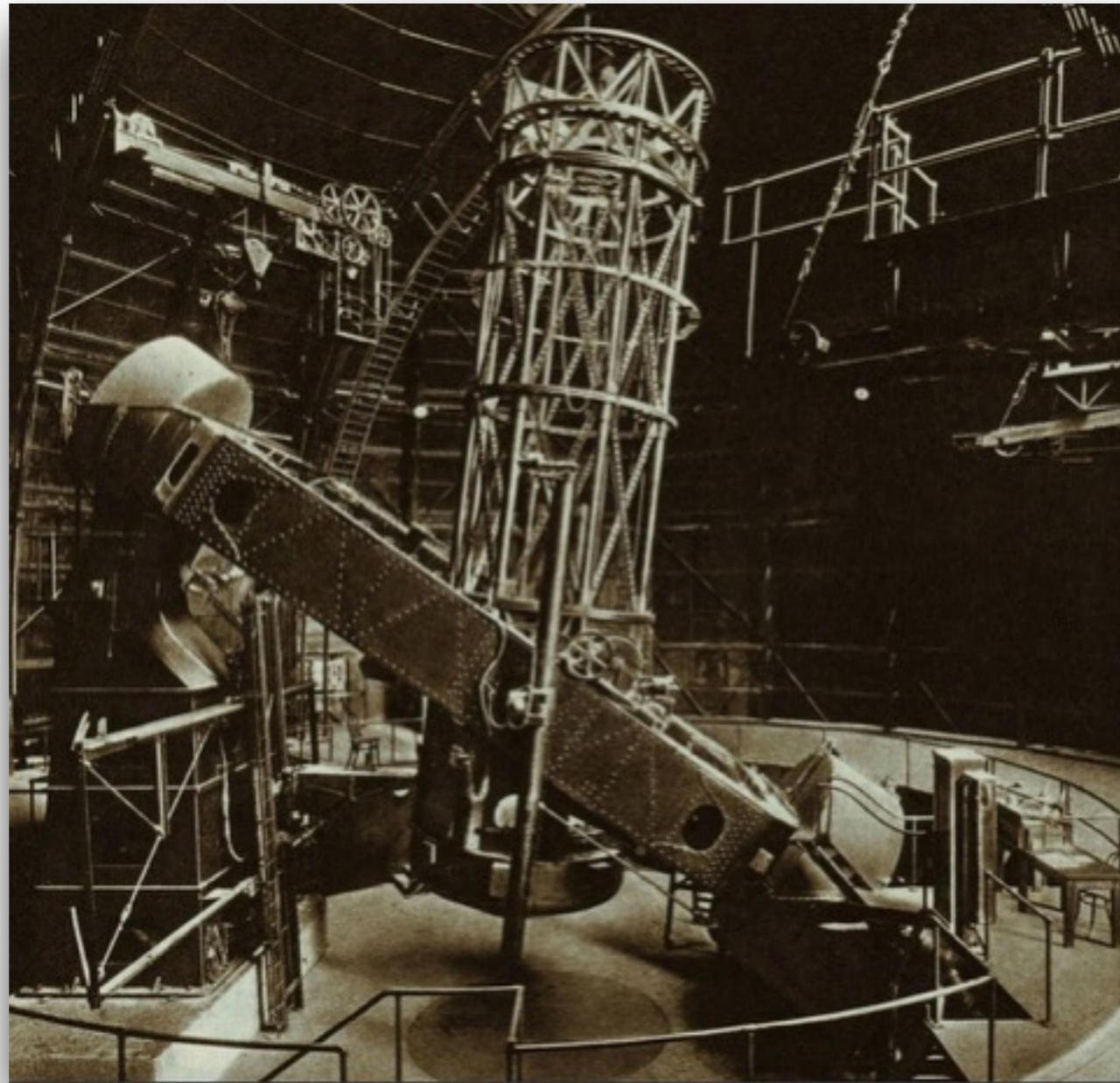
Universe contracts  
Atoms and photons contract  
Redshift is observed



Universe contracts  
Atoms are bluer today  
Photons half as much



Hubble used Hooker  
100" telescope  
Atop Mt. Wilson



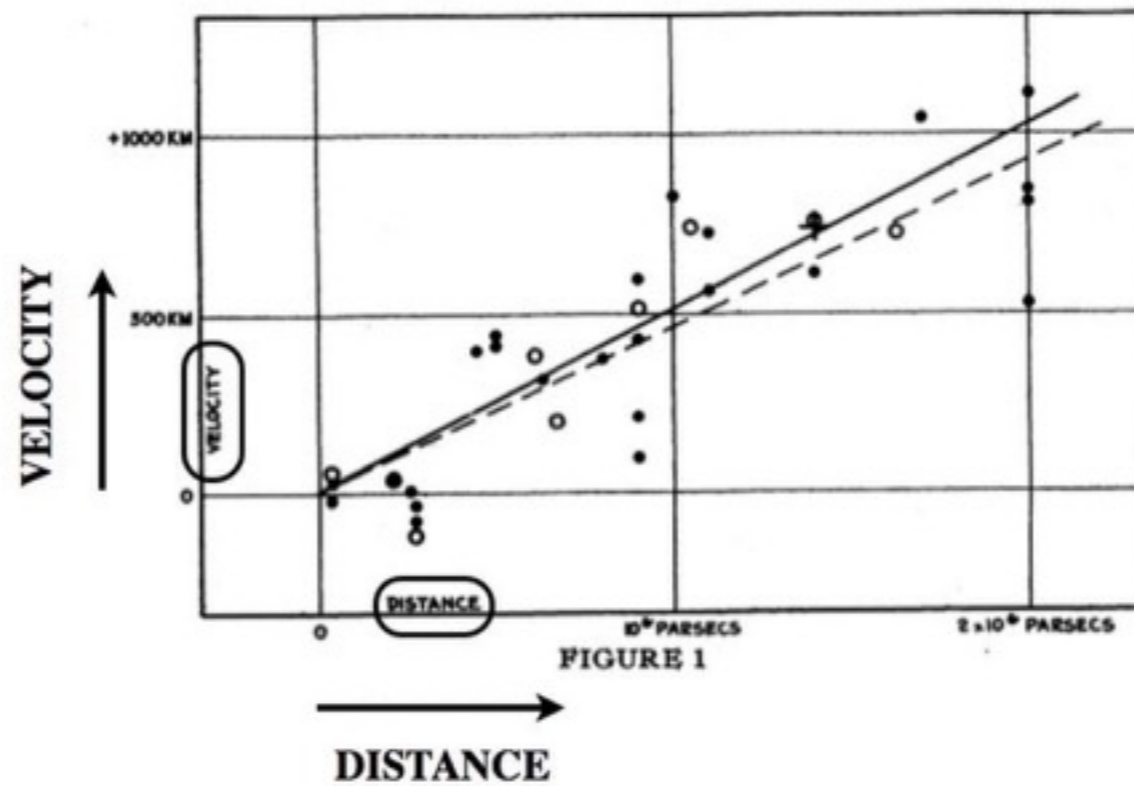
From 1917  
World's largest for 3 decades  
Unraveled secrets

*A RELATION BETWEEN DISTANCE AND RADIAL VELOCITY  
AMONG EXTRA-GALACTIC NEBULAE*

BY EDWIN HUBBLE

MOUNT WILSON OBSERVATORY, CARNEGIE INSTITUTION OF WASHINGTON

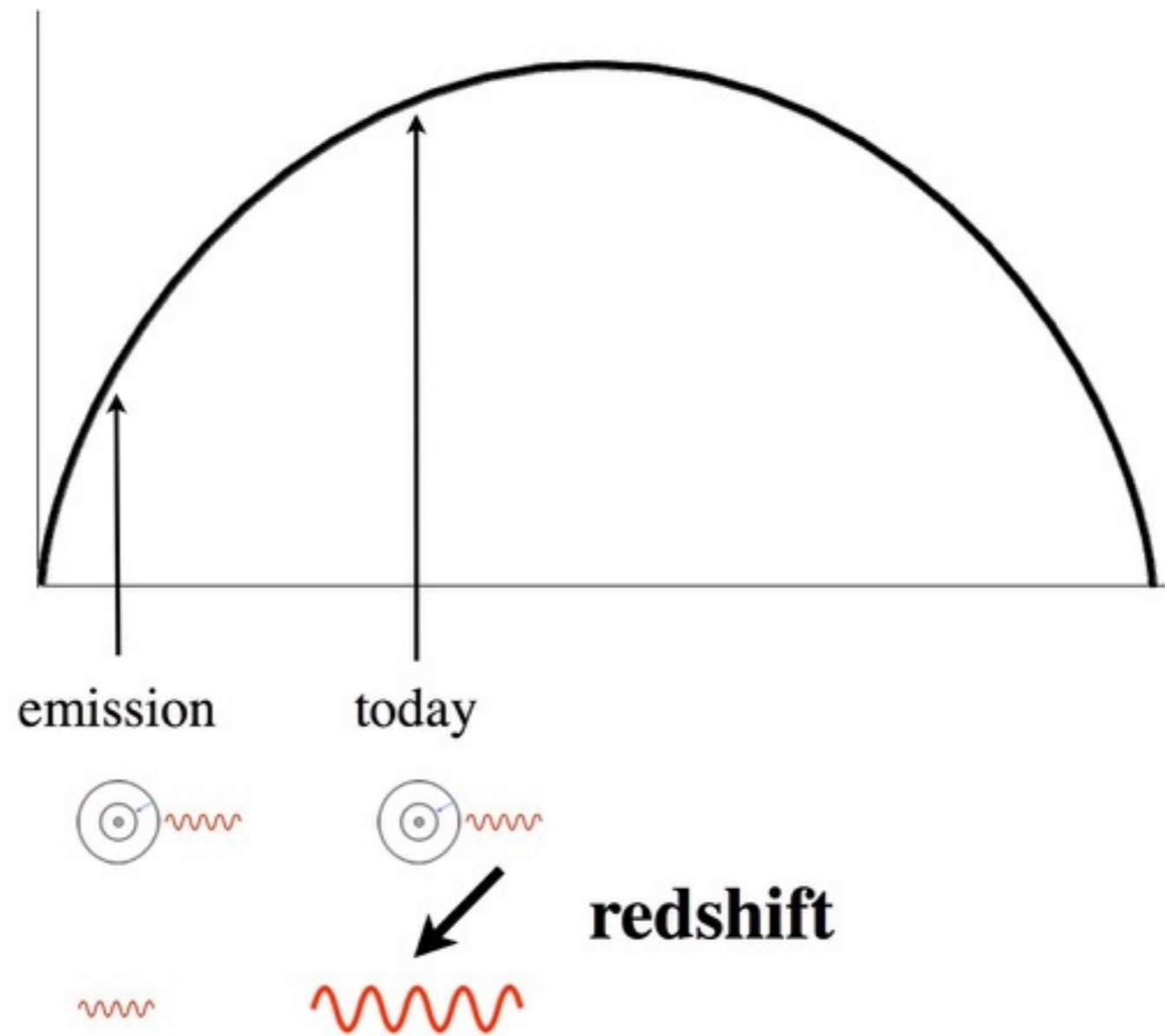
Communicated January 17, 1929



1929

Redshift implies expansion  
Published by Hubble





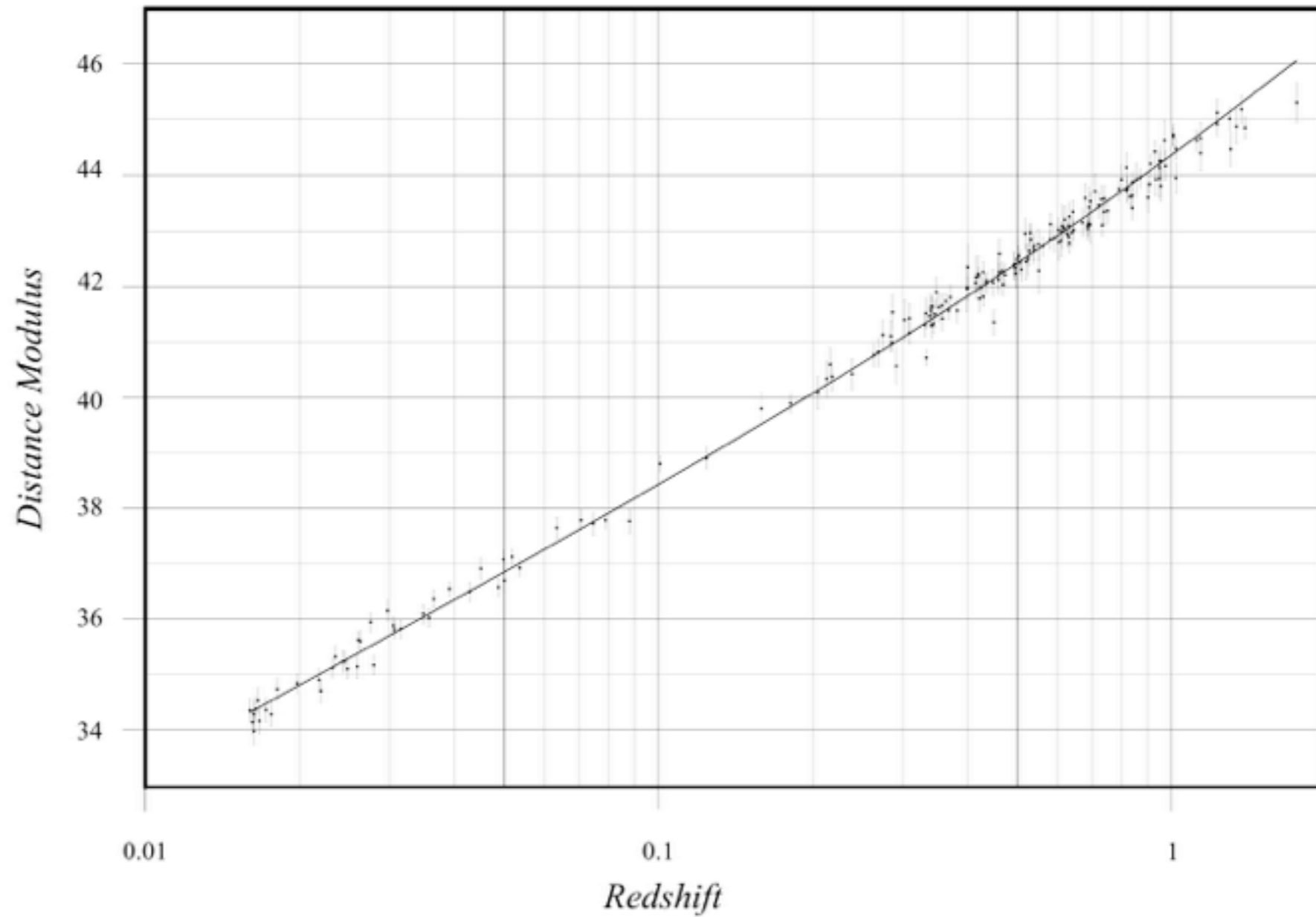
Paradigm was born  
 Redshift comes from photon change  
 Atoms never change



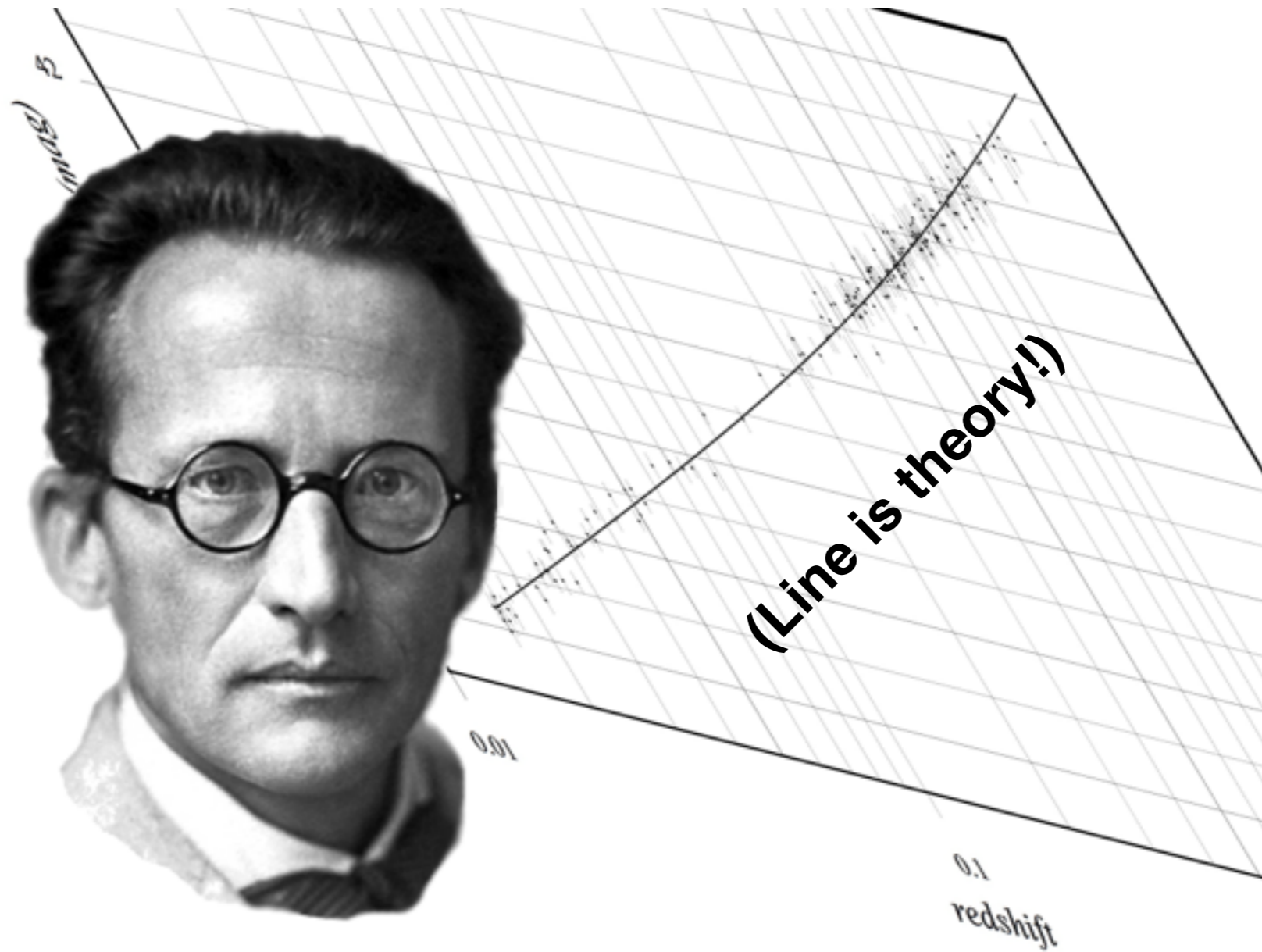
Bang! Supernovas  
Bright beacons far, far away  
Sharp lines redshifted



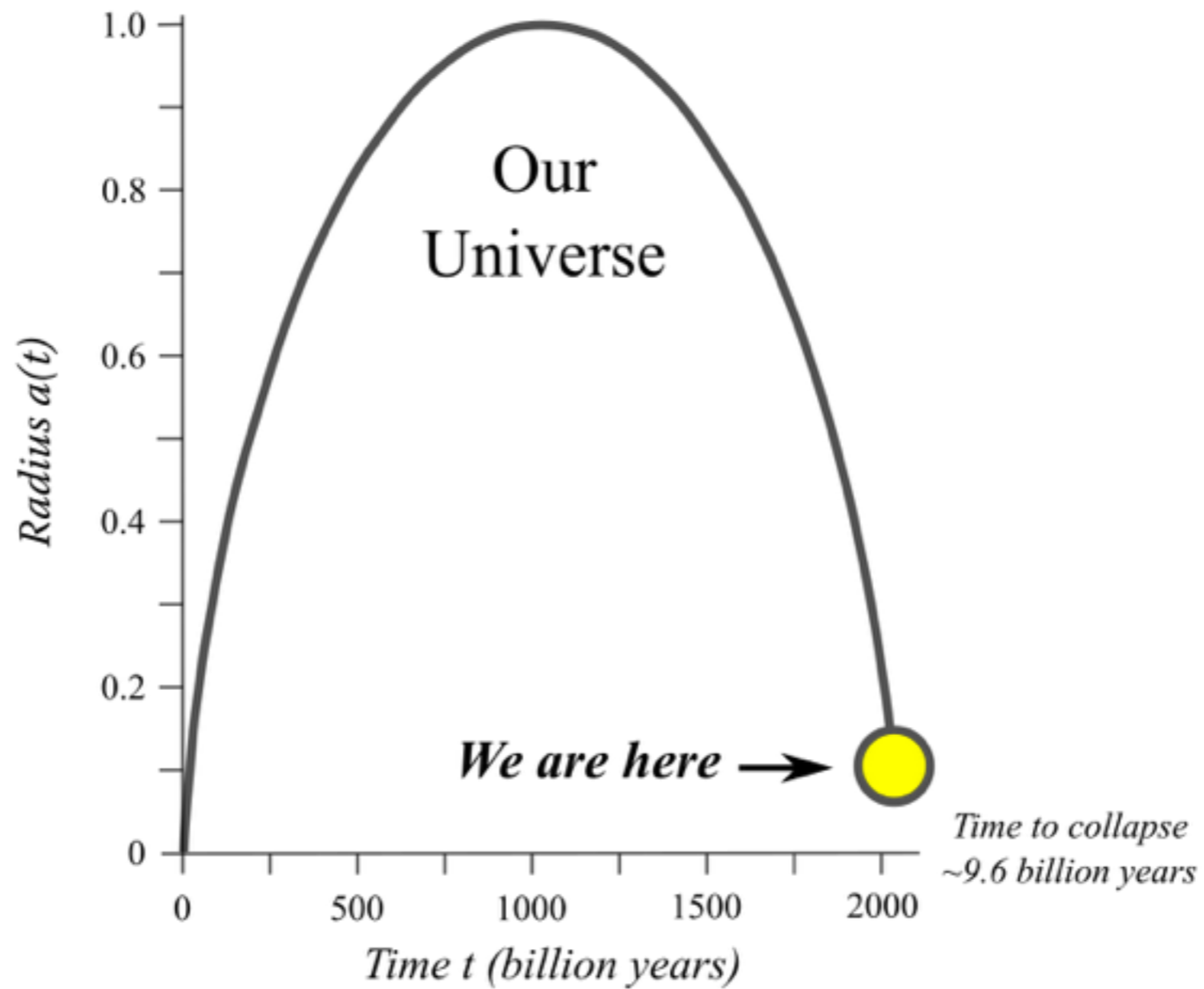
Spectra studied by  
Hubble Space Telescope and  
Keck 400''



Much consternation  
The curve bends up, not down as  
Expansion demands



But theory matches  
Redshifts when atoms contract  
Just as photons do



Theoretical fits  
To latest redshift data  
Give age and time left

ON THE VARIATION OF VACUUM PERMITTIVITY IN FRIEDMANN UNIVERSES

WILLIAM Q. SUMNER

Box 588, Kittitas, WA 98934

Received 1993 March 31; accepted 1994 January 14

The universe is collapsing.

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SUMNER

Hubble constant. Figure 3 presents the time remaining until collapse for different ages and Hubble constants.

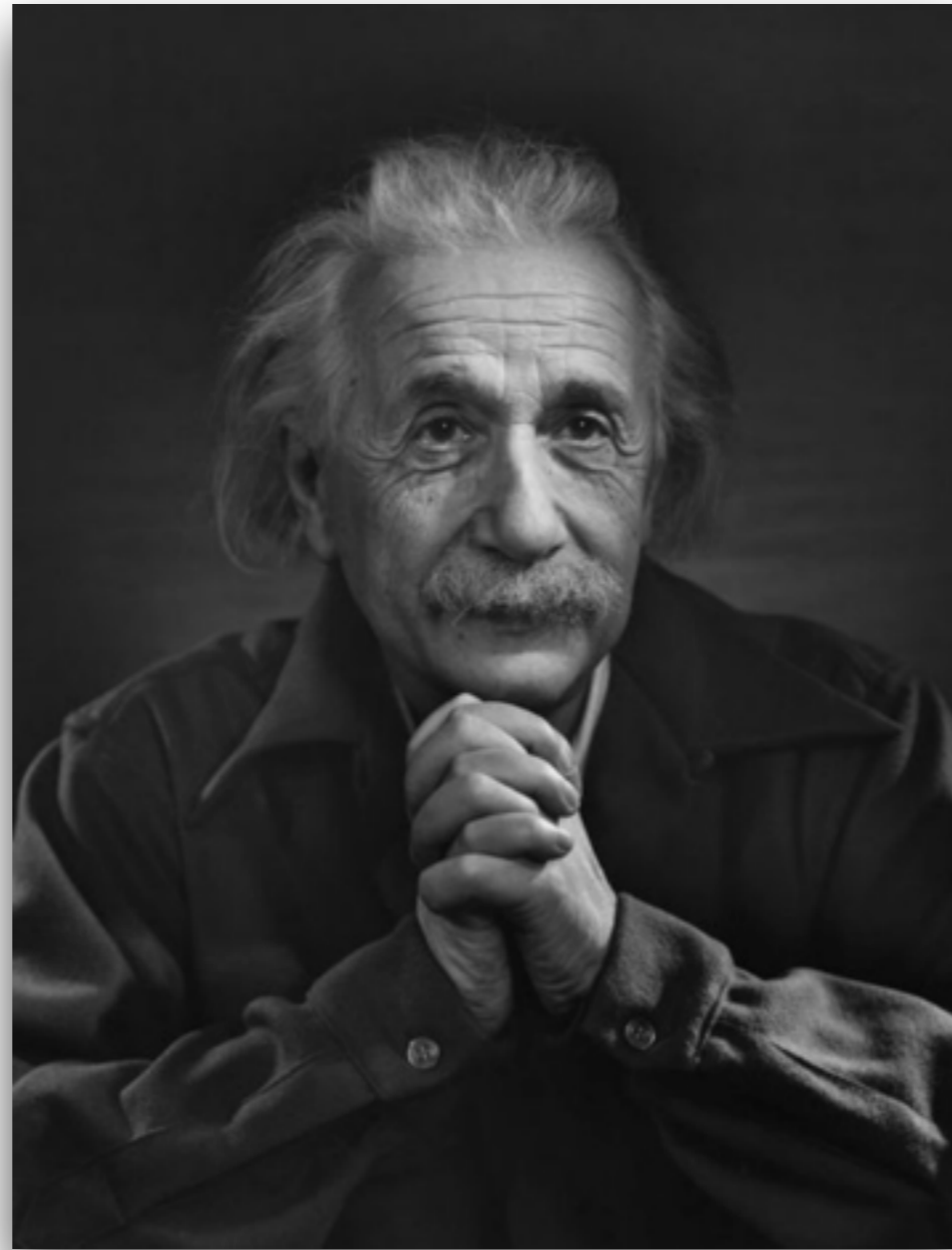
14. CONCLUSIONS

The fact that vacuum permittivity is not always constant is a beautiful result of the deep interdependence of general relativity and electrodynamics. In Friedmann spacetime vacuum permittivity is directly proportional to the Friedmann radius, invalidating the postulated equivalence of physical measure-

ments and mathematical coordinates. The mathematical space of general relativity is not measured by either meter sticks or by atomic emissions. The mathematical time of general relativity is not measured by an atomic clock.

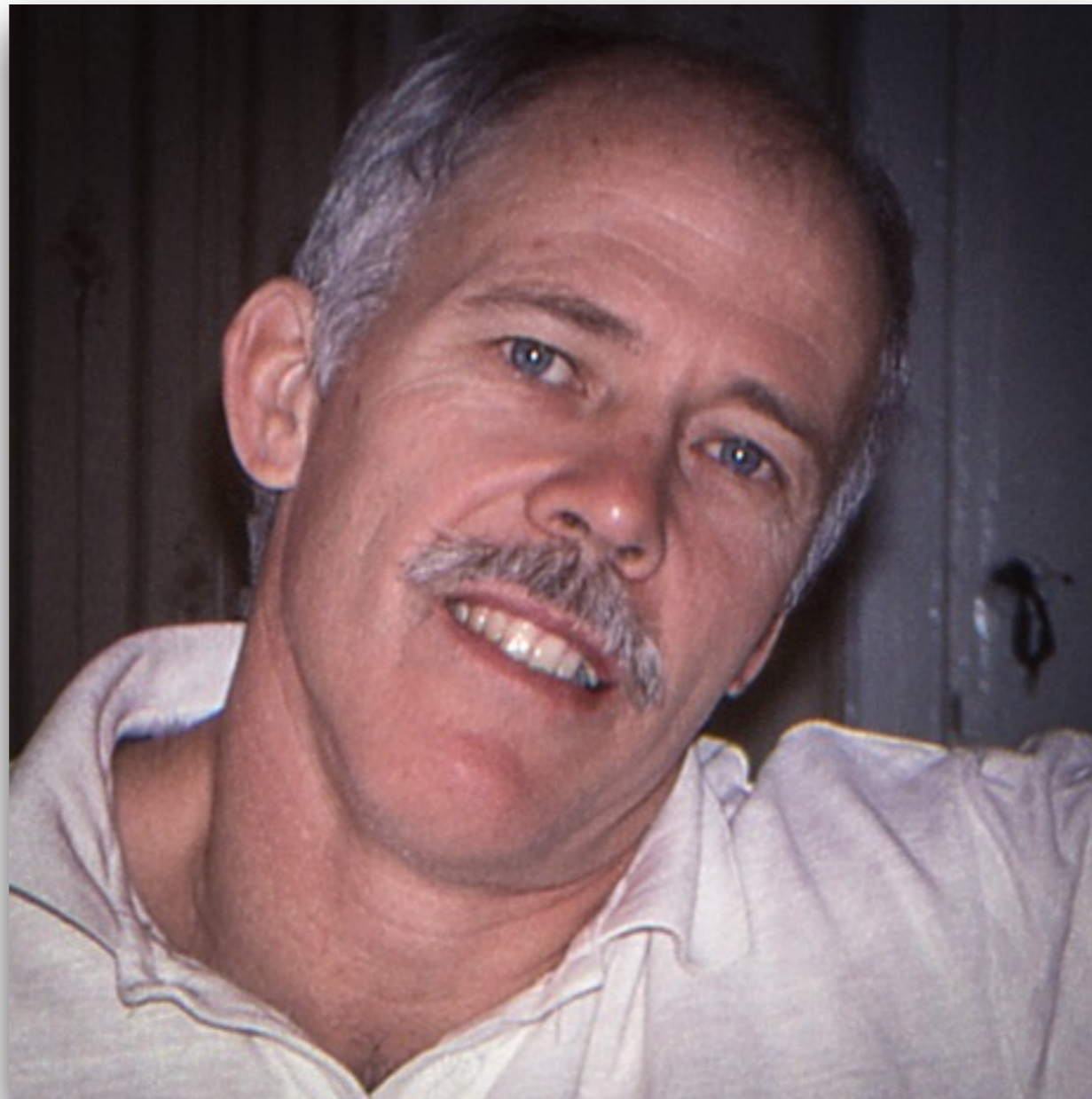
The varying strength of the electrical force changes atomic energy levels, photon energies and the interpretation of Hubble redshift of light emitted by distant sources to imply that those sources are now approaching the Earth. The universe is collapsing.

Peer reviewed, published  
Few took it seriously  
Collapse now confirmed

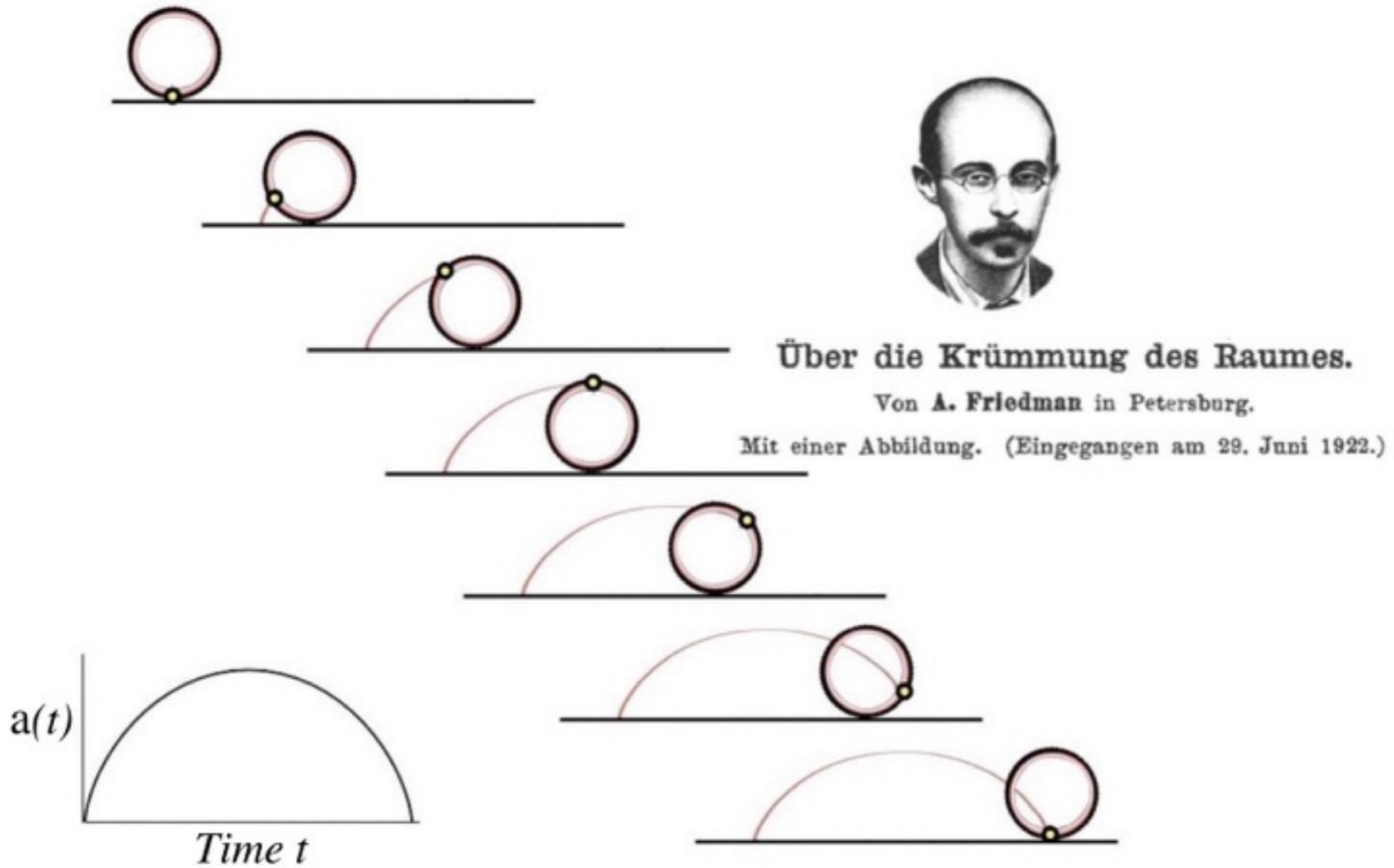


Electric fields and  
Spacetime are connected in  
Relativity

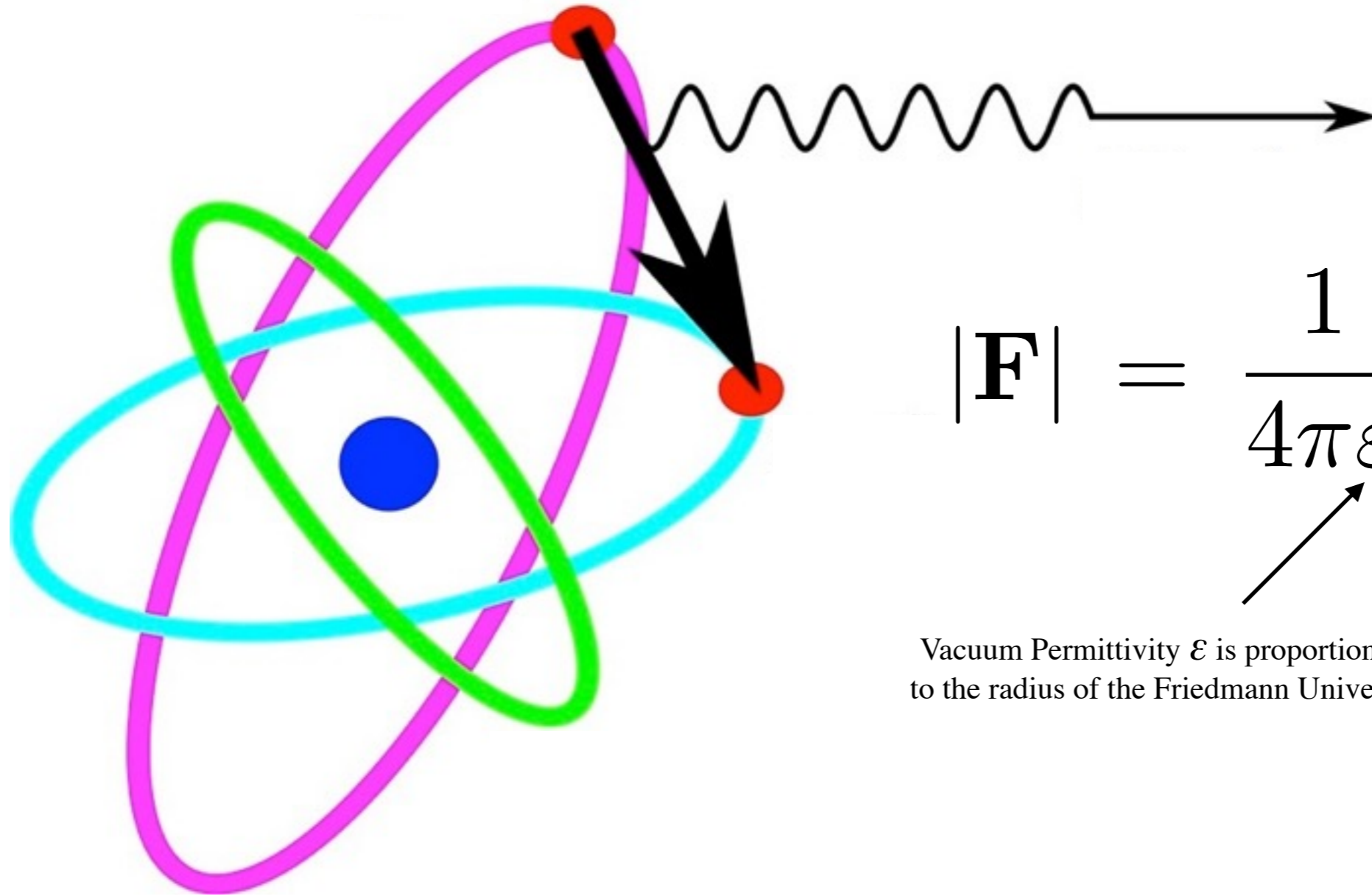




I studied how fields  
Change in Friedmann spacetime and  
The implications



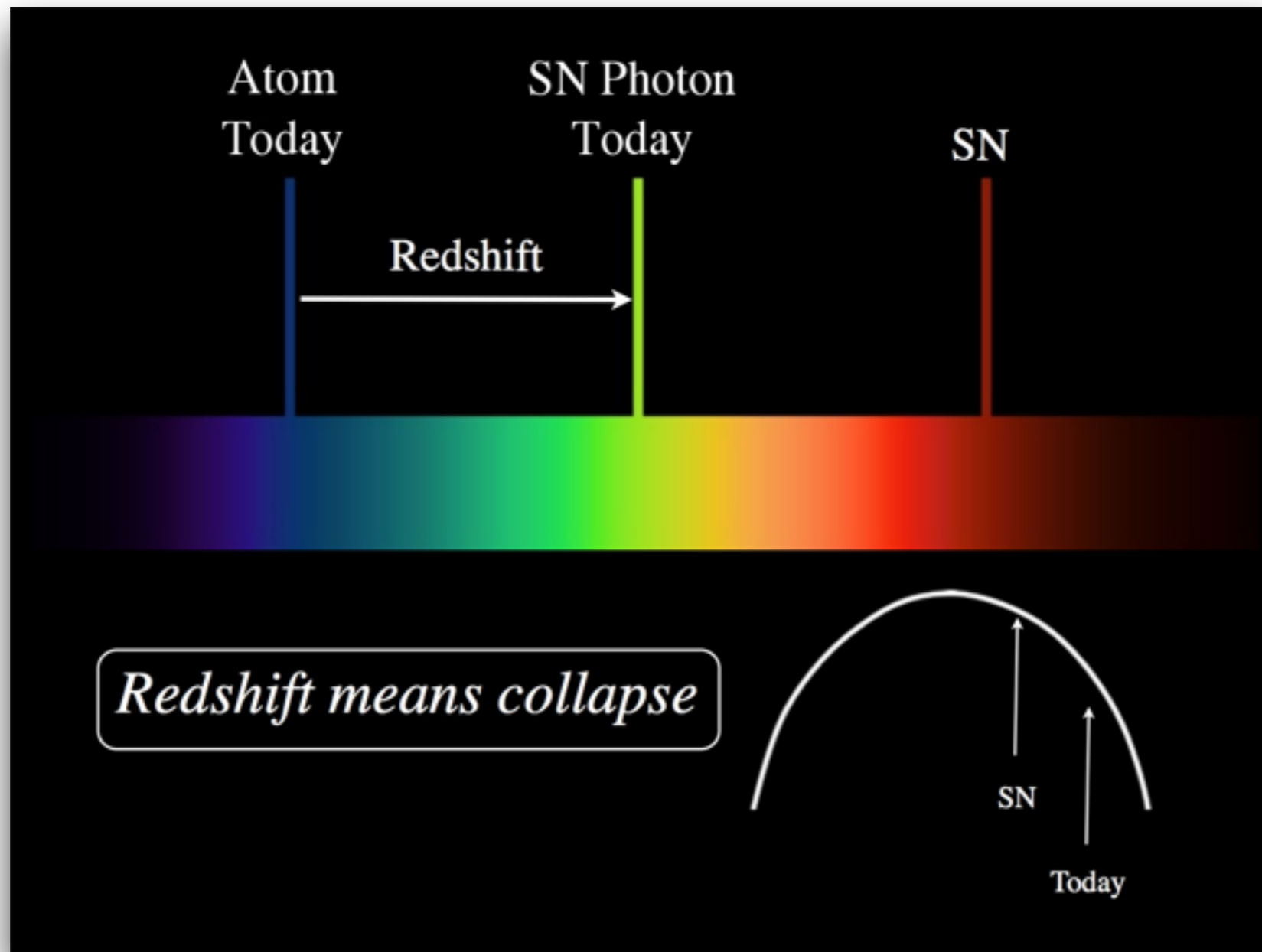
Geometry rules  
 Electric field strength changes  
 Like  $1/a$



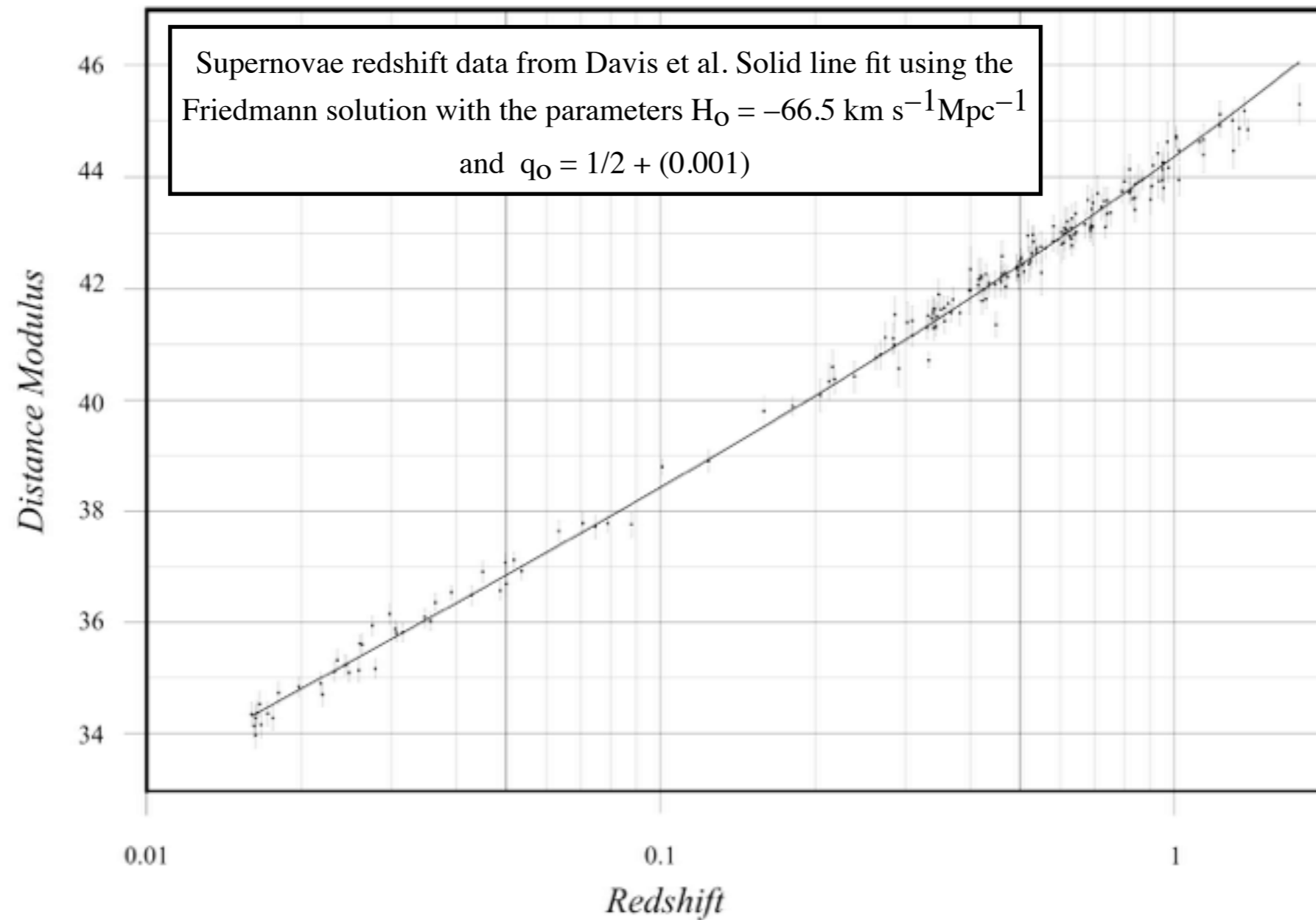
$$|\mathbf{F}| = \frac{1}{4\pi\epsilon} \frac{|q_1 q_2|}{r^2}$$

Vacuum Permittivity  $\epsilon$  is proportional to the radius of the Friedmann Universe

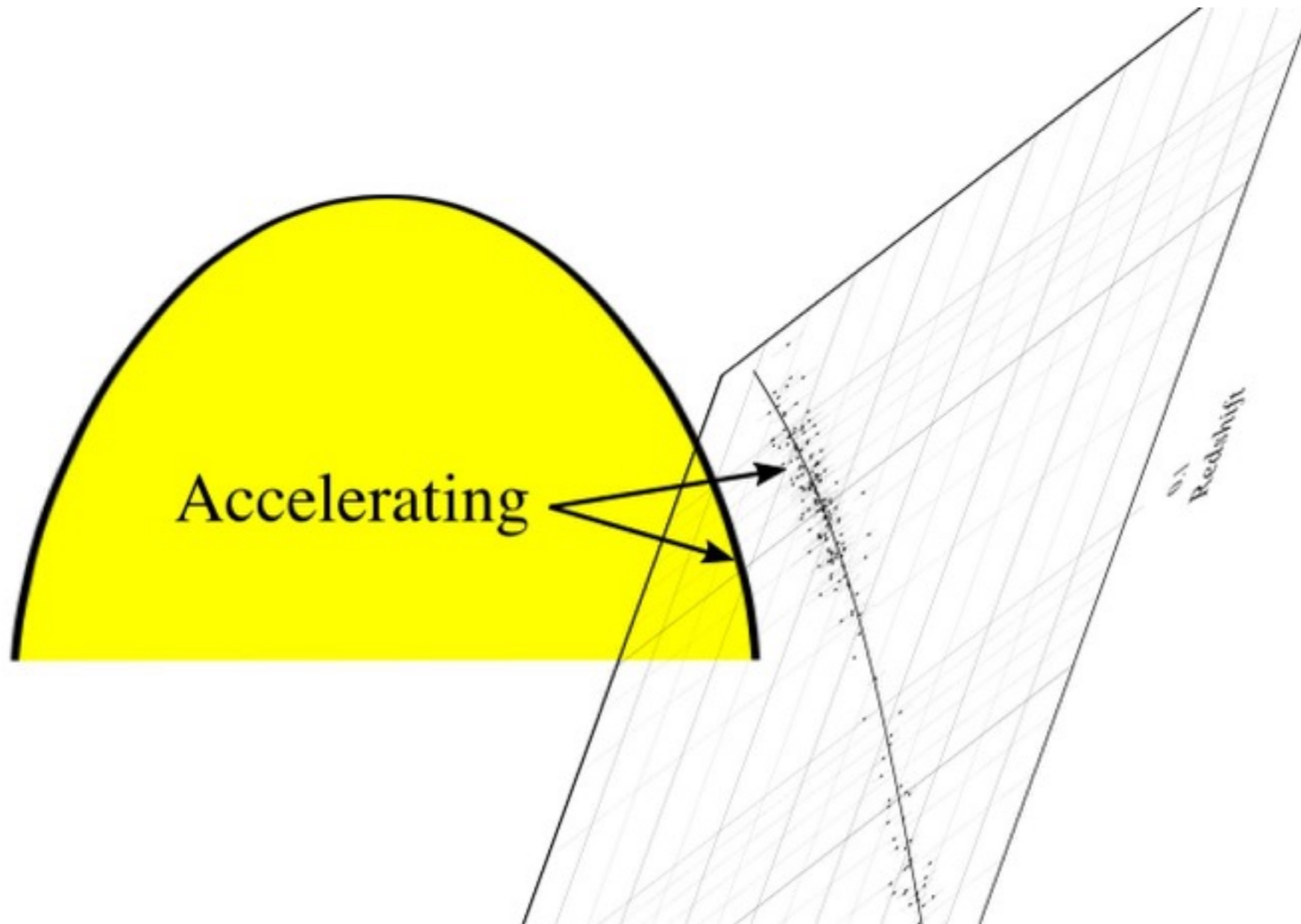
Photon wavelengths and Atomic emissions change With the universe



Changing atoms and  
Photons reverses meaning  
Of redshift. Collapse.

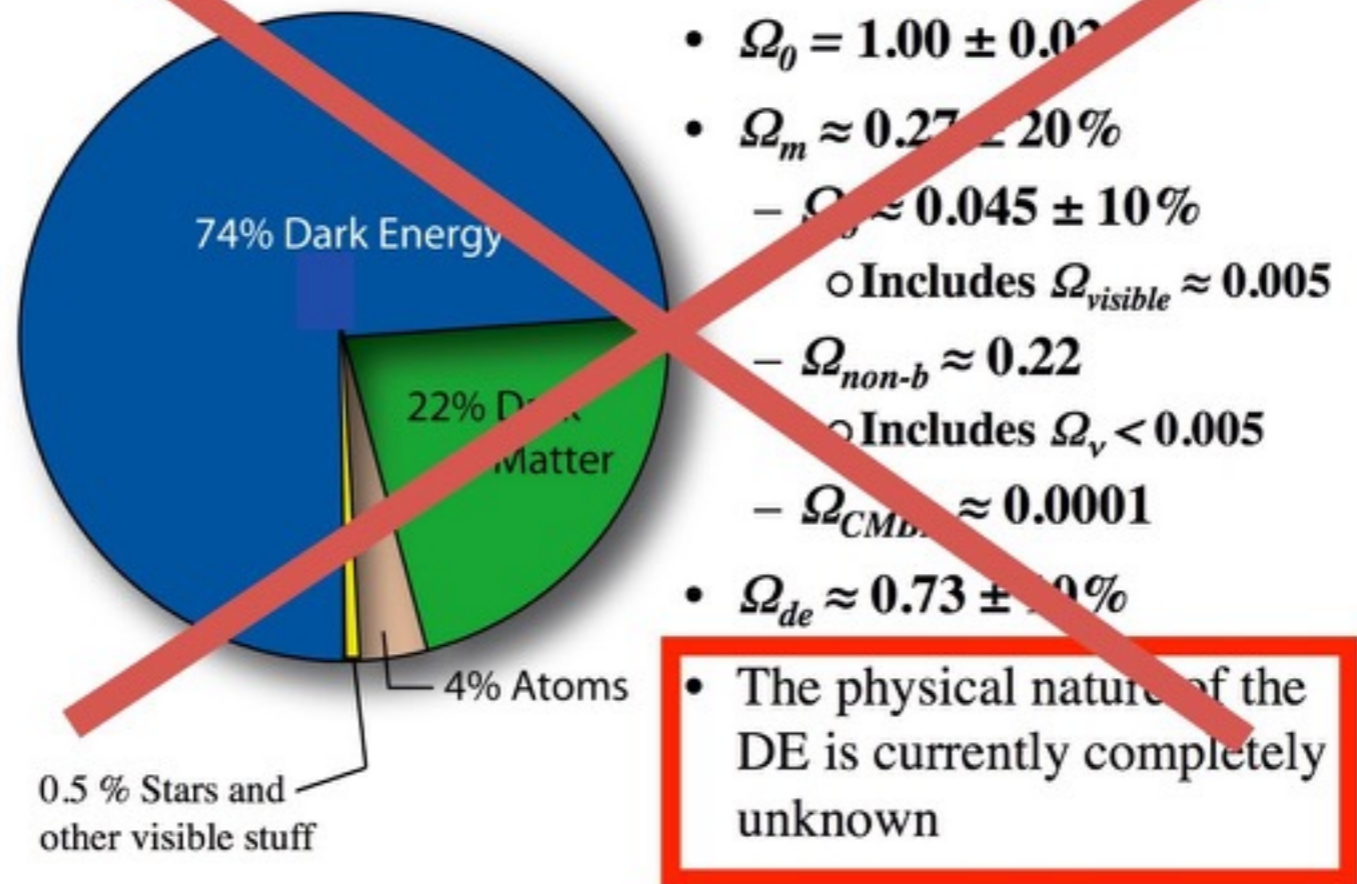


Two parameters  
H and q are all that are  
Used to fit redshift



Hubble redshift is  
Accelerating because  
Our universe is

## Contents of the Universe: Summary



No dark energy  
Needed to fit redshifts when  
Collapse understood



## THE PROPER VIBRATIONS OF THE EXPANDING UNIVERSE

by ERWIN SCHRÖDINGER

§ 1. *Introduction and summary.* Wave mechanics imposes an a priori reason for assuming space to be closed; for then and only then are its proper modes discontinuous and provide an adequate description of the observed atomicity of matter and light. — Einstein's theory of gravitation imposes an a priori reason for assuming space to be, if closed, expanding or contracting; for this theory does not admit of a stable static solution. — The observed facts are, to say the least, not contrary to these assumptions.

Schrödinger, E. 1939, *Physica*, 6, 899

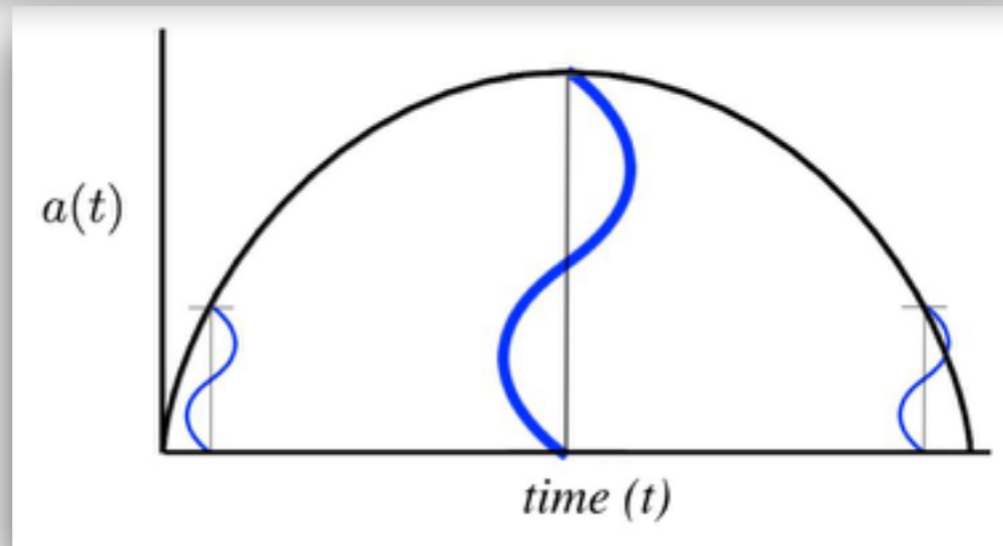
Schrödinger explored  
Quantum mechanics in curved  
Spacetime of Friedmann



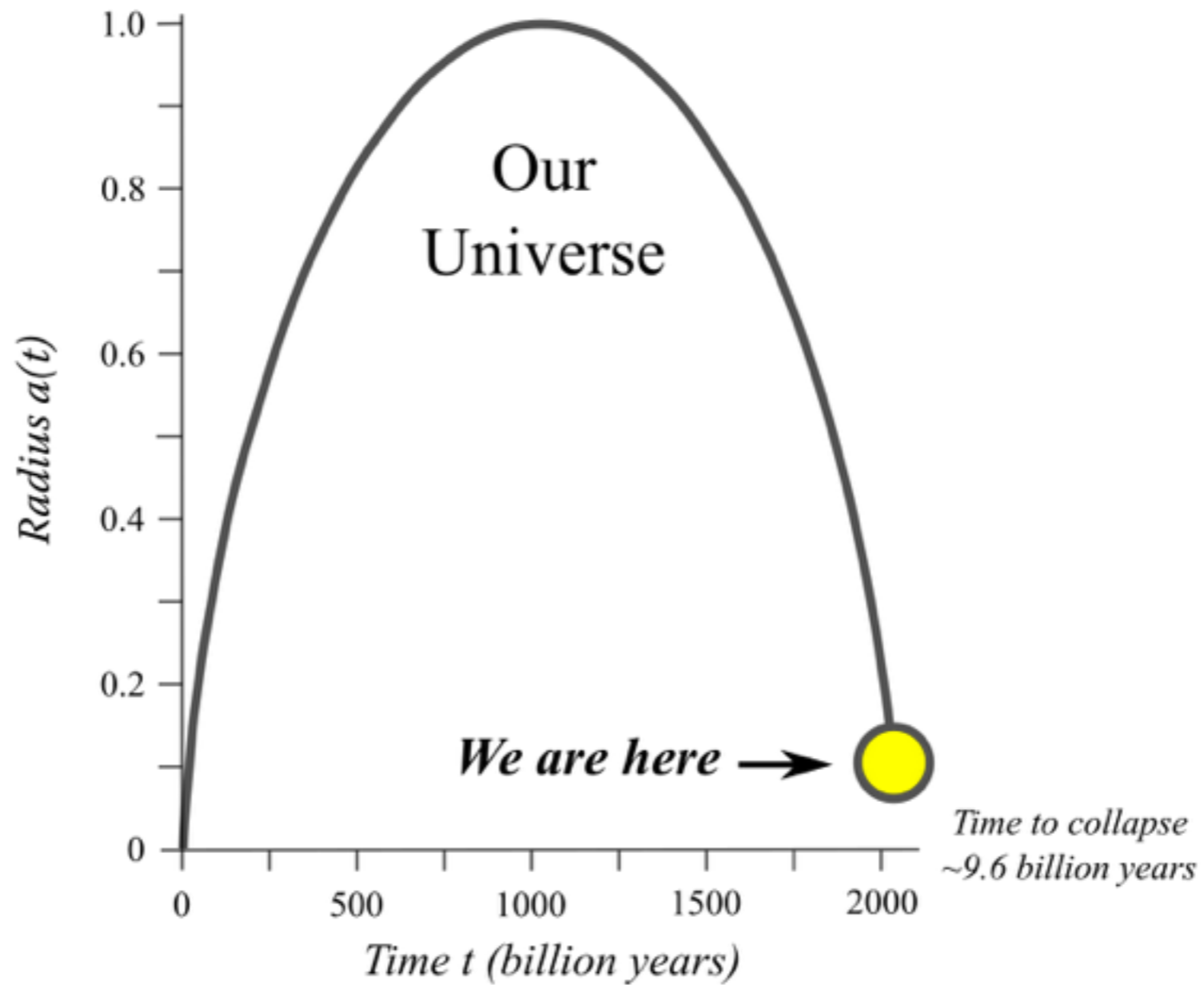


“In an expanding space all momenta decrease . . . This simple law has an even simpler interpretation in wave mechanics: all wavelengths, being inversely proportional to the momenta, simply expand with space.”

Erwin Schrödinger



In contracting space  
All wavelengths contract with space  
Atoms get smaller



Atomic change found  
By Schrödinger and Sumner  
Precisely agree



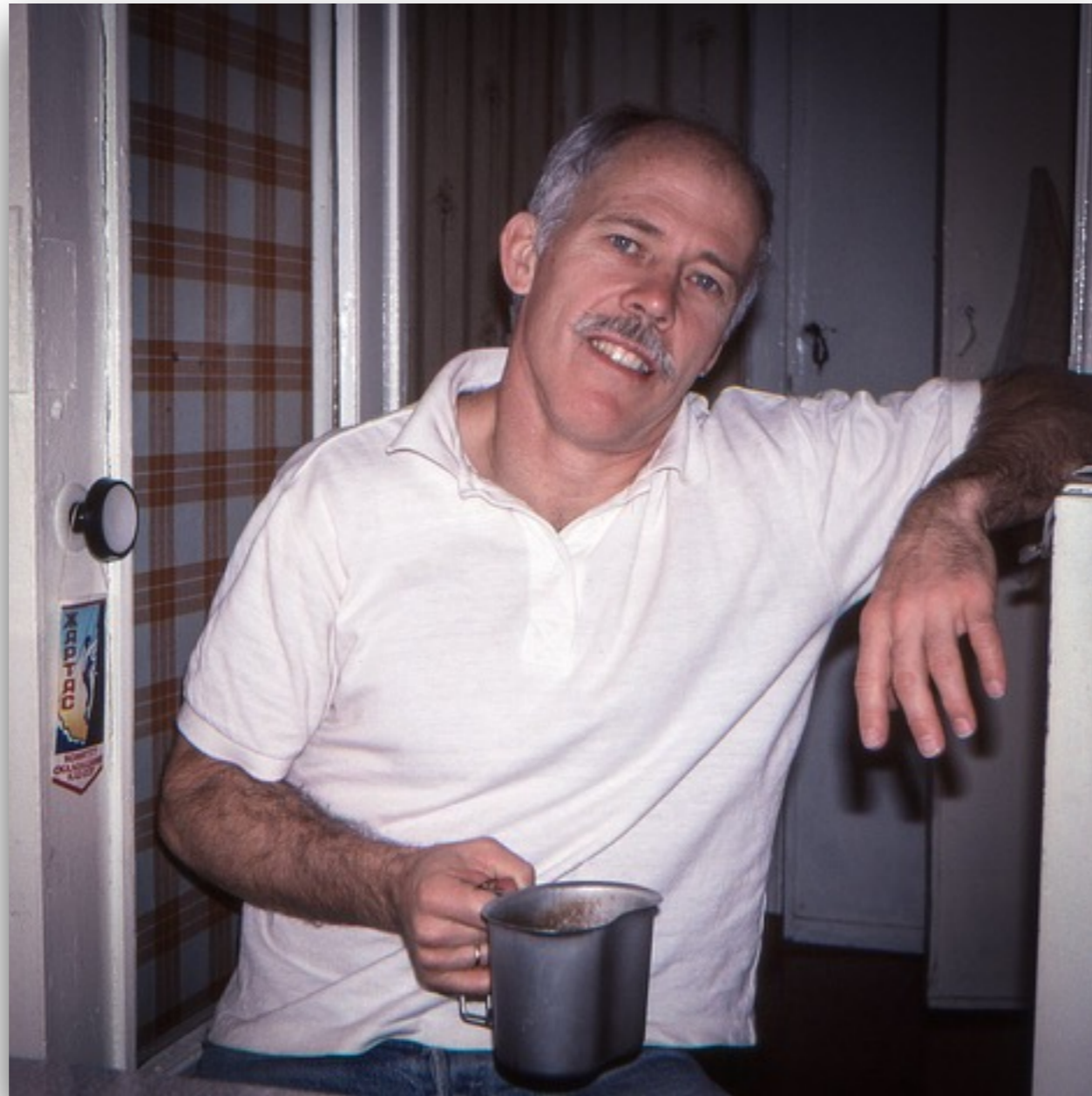
Yes, YOU are star dust  
Yes, YOU are the Universe  
YOU too are shrinking



Key research was done  
In Chirchik, Uzbekistan  
Soviet Union



Clear mind and free time  
Paper, pencil, waste basket  
Free time and clear mind



Tiny apartment  
Not a famous institute  
Perfect for thinking



Satisfying when  
 Very old physics resolves  
 Modern mysteries



That's it for physics  
Shifting to personal things  
Here's why I was there





Flowing up steep rock  
Soviet Champ fourteen years  
Flura climbs with grace



Gentle and tender  
Focus and intensity  
A champion's fire



Following my heart  
Iron curtain and twelve time zones  
I went to Chirchik



Two lovers, one dream  
Kitchens shared around the world  
Two dreamers, one love

Thank you for reading!

The physics supporting these haiku  
[vixra.org/abs/1509.0112](http://vixra.org/abs/1509.0112)

[katoon.org](http://katoon.org) is my web site. Links include

[Free Falling Backwards](#) (my journey)

[Vera](#) (a related illustrated story)

[wqsumner@gmail.com](mailto:wqsumner@gmail.com) is my email