

# LIGHTS ALL ASKEW IN THE HEAVENS

Men of Science More or Less Agog Over Results of Eclipse Observations.

## EINSTEIN THEORY TRIUMPHS

Stars Not Where They Seemed or Were Calculated to be, but Nobody Need Worry.

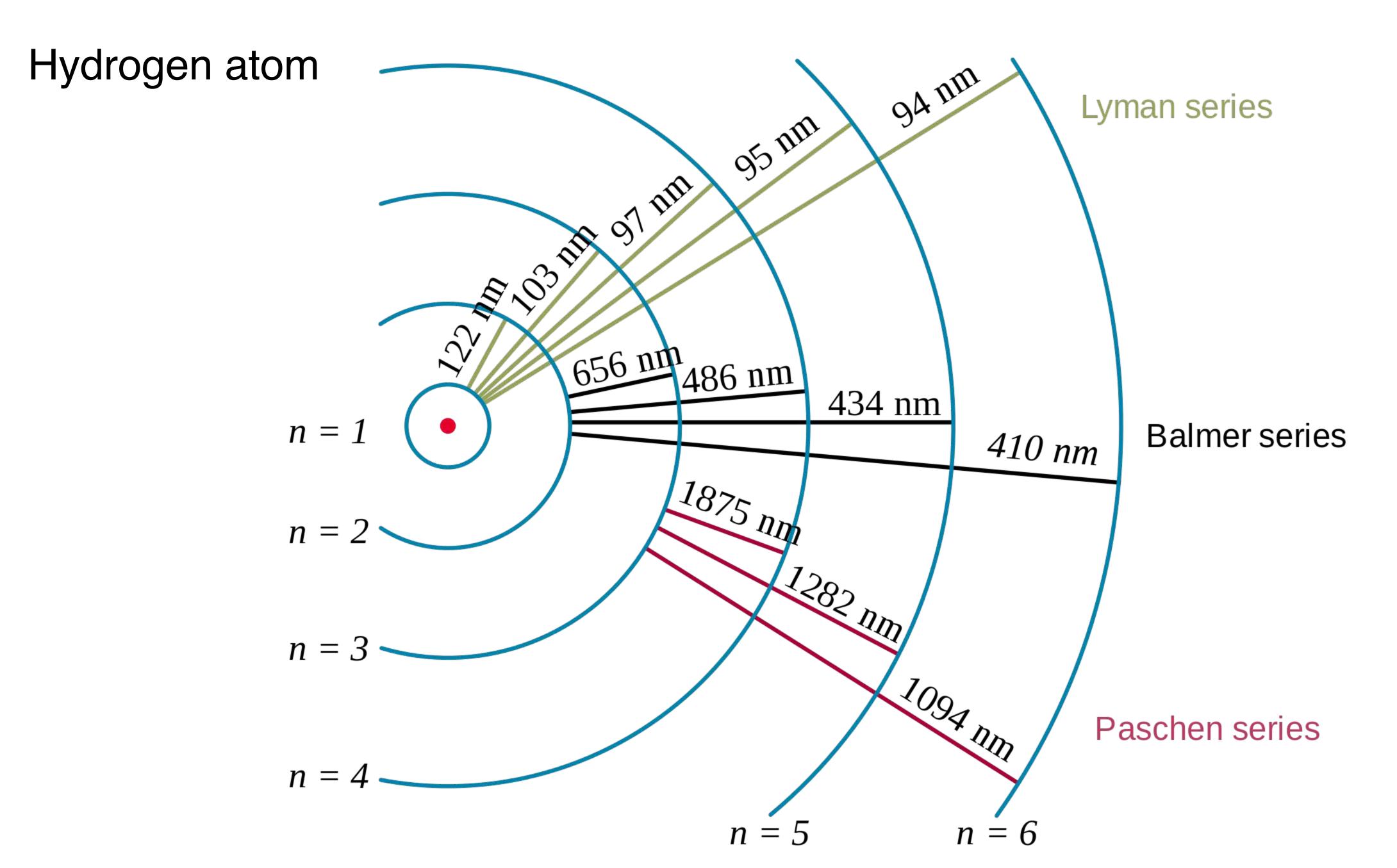
A BOOK FOR 12 WISE MEN

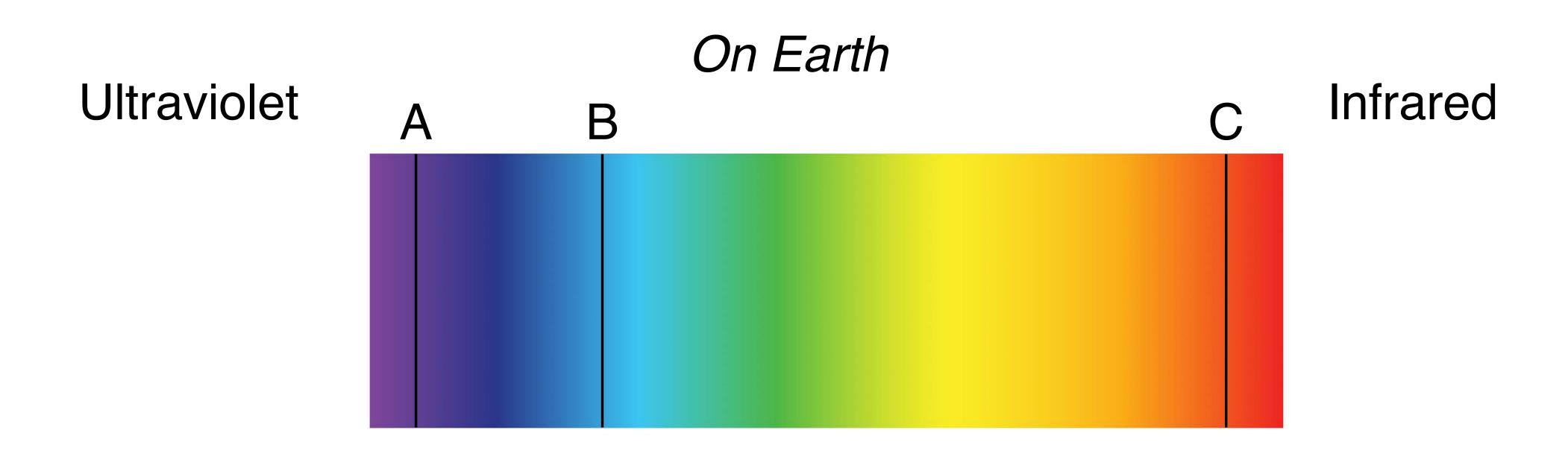


Edwin Hubble in 1931 (Public domain)

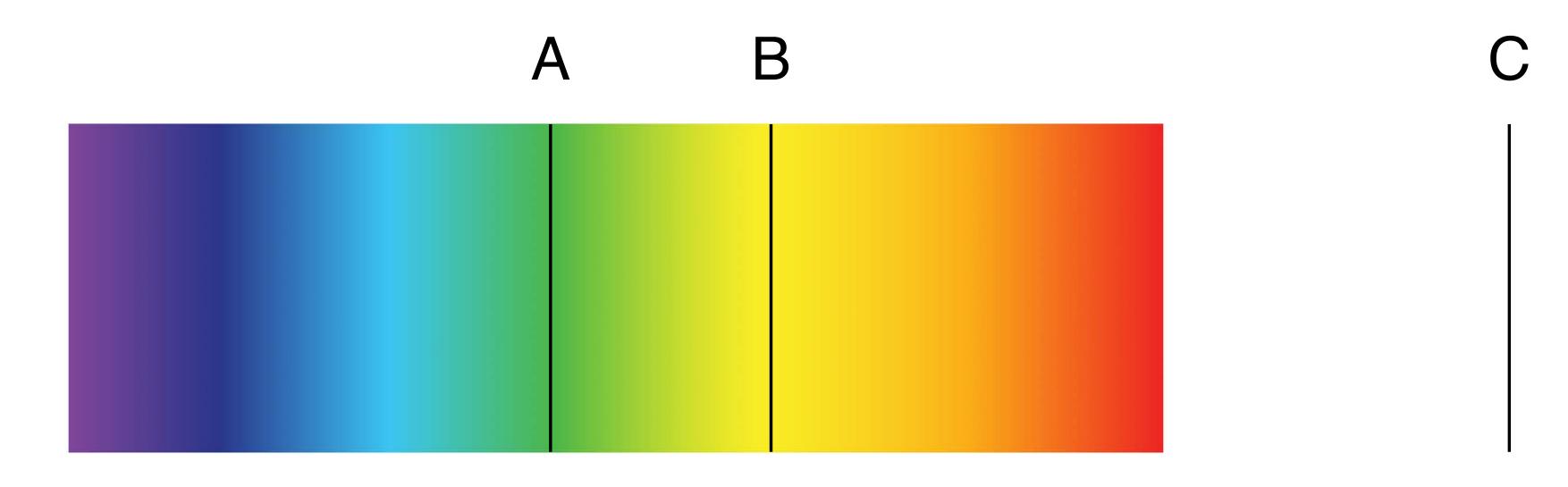


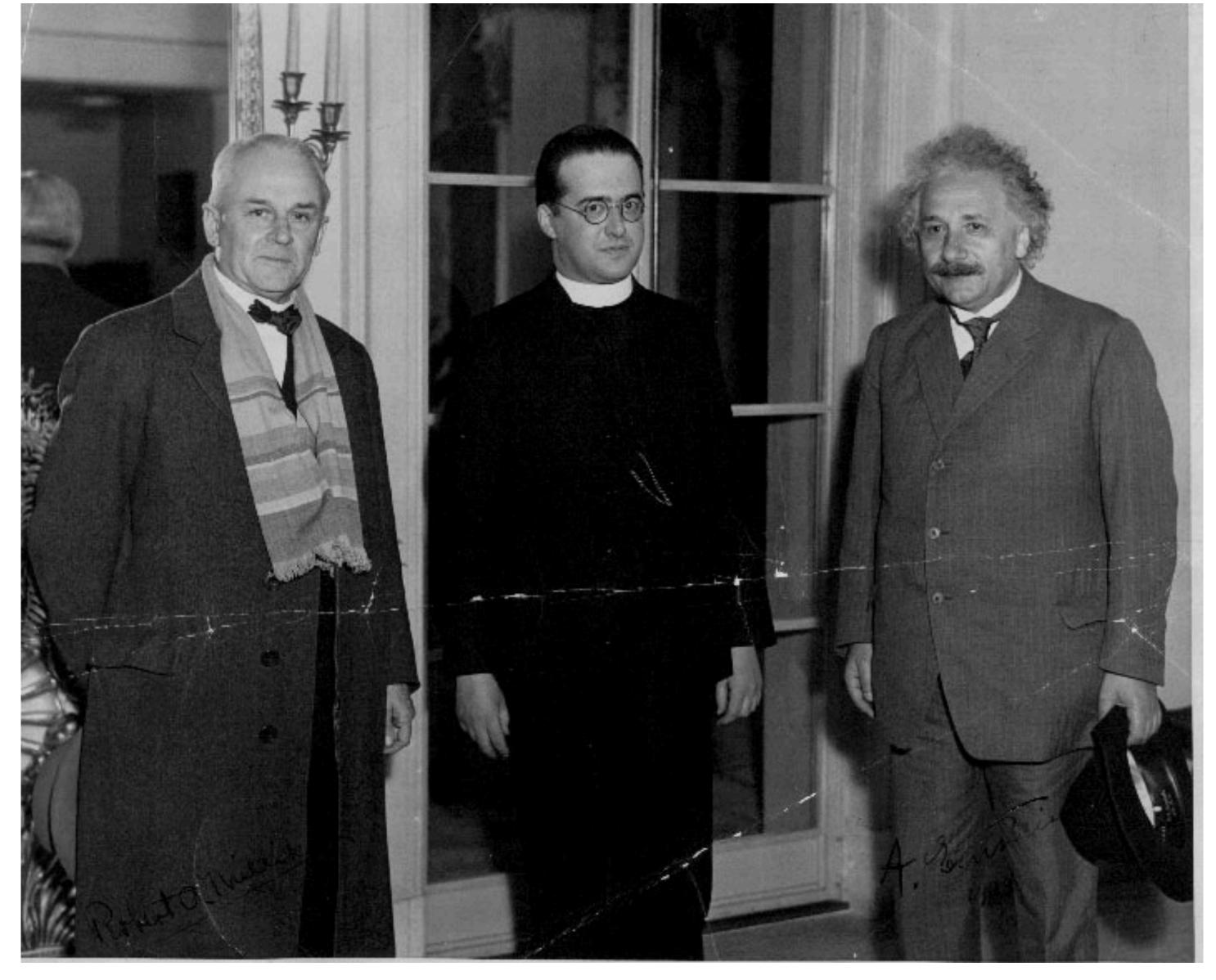






From a distant galaxy: "redshifted" spectrum

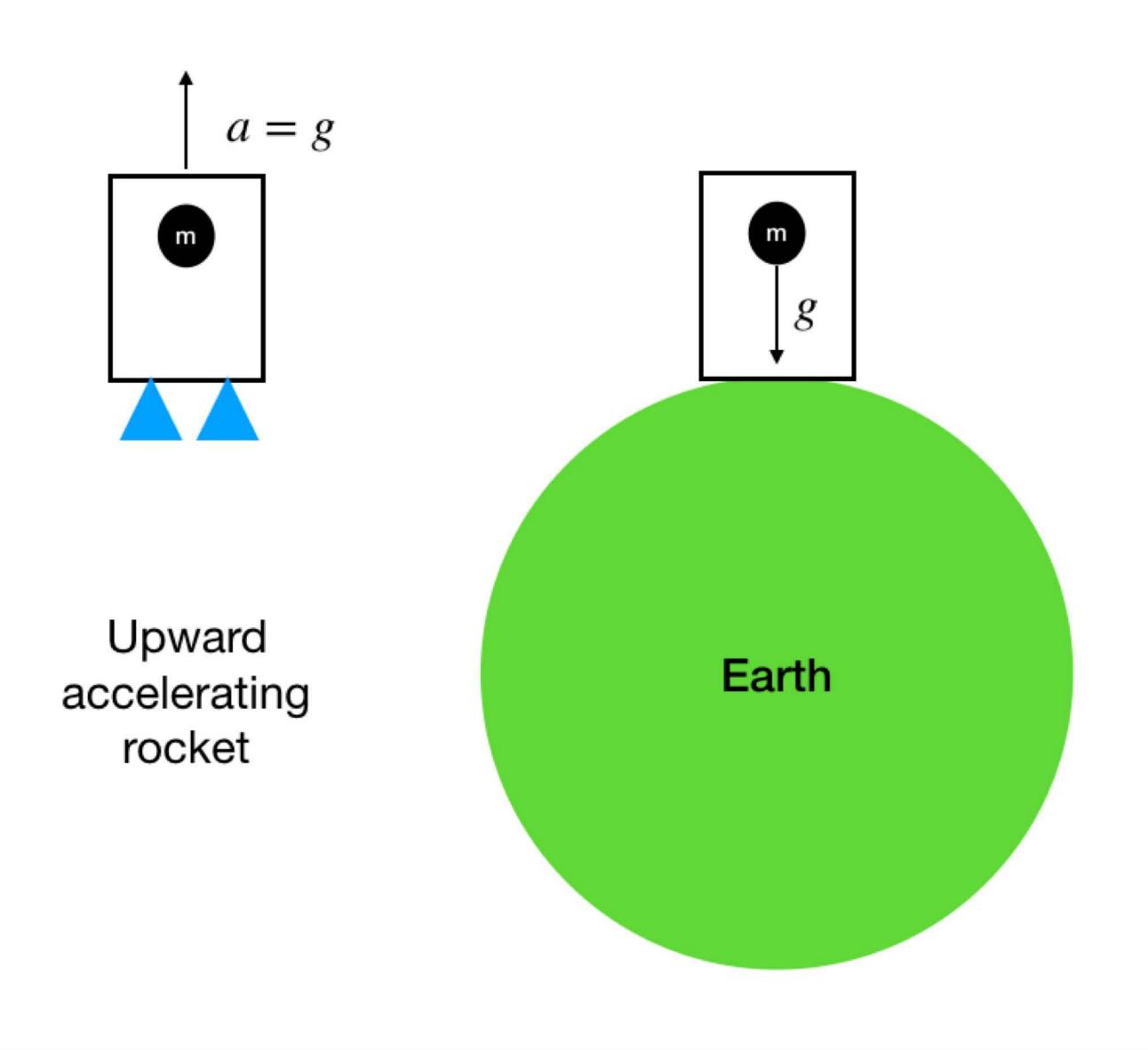


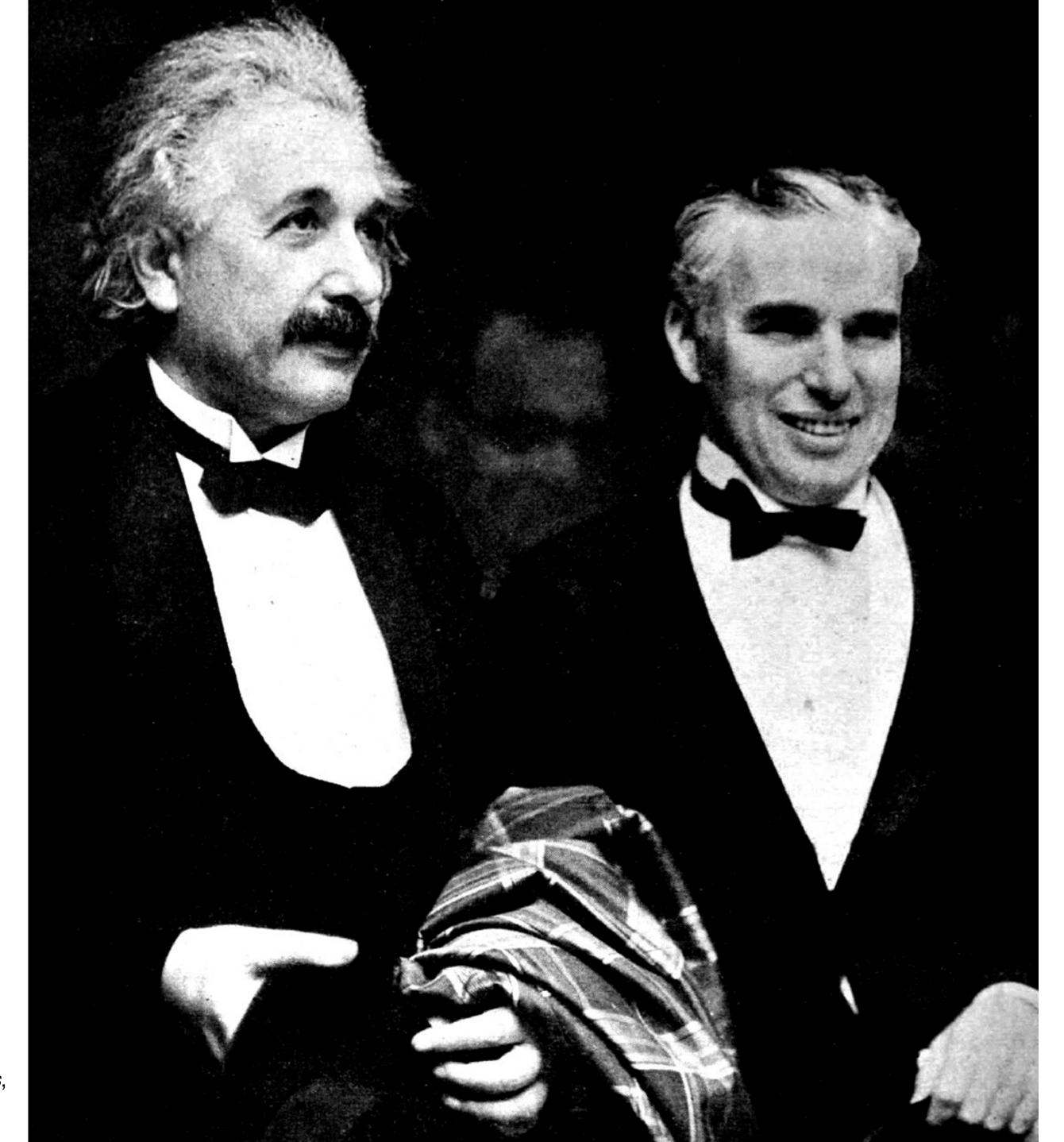


Robert Millikan

Georges Lemaître

Albert Einstein





Einstein with Chaplin at the premiere of *City Lights*, Los Angeles, Jan 30th 1931 (public domain)

"All the News That's Fit to Print."

## The New York Times.

Fair and warmer today; tomorrow fair with mild temperature. Temperatures yesterday-Max. 36, mln. 19.

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VOL. LXXX....No. 26,642.

NEW YORK, SATURDAY, JANUARY 3, 1931.

TWO CENTS in Greater | THREE CENTS | New York | Within 200 billes

American Correspondent Wounded at Storming of President's Palace.

REGIME IN CONTROL

Supreme Court Swears Arias, Rebel Leader, as Provisional President.

ALFARO TO SUCCEED HI

Minister to Washington Agrees Treasury Representatives of to Take Post—Recognition by Us Is Expected.

Special Cable to THE NEW YORK TIMES. PANAMA CITY, Jan. 2.- The Gov- PARIS CUTS DISCOUNT RATE ernment of the Republic of Panama, headed by President Florencio Harmodio Arosemena, was overthrown early today in a revolution that flared up with deadly swiftness,

### Note in Bottle Tells of Sinking of Liner Lusitania by Torpedo

Special Cable to THE NEW YORK TIMES. HAMBURG, Jan. 2 .- A bottle covered with mussels and seaweed, containing a paper on which was He Was Hailed as Savior of ful. written in English, "Lusitania torpedoed. Will sink within ten minutes," followed by ten signatures with cabin numbers was washed up on the : hore of Langeness Island off North Friesland coast, it was learned here today.

The names were not revealed, but those who examined the bottle are convinced of its genuineness. The bottle has been forwarded to the Cunard Line office in London.

Both Countries Now Meeting in Paris to Discuss Loans.

Set at 2 Per Cent in Effort to Stop Flow of Gold Into France

Marshal Succumbs to Disease of Arteries-Amputation of Foot Failed to Save Life.

NOTED AS VICTOR OF MARI

His Country for Halting Advance of Germans.

VISITED AMERICA IN 1917 static.

Came Here as Member of the High Commission Sent to Aid Us When We Entered the War.

Special Cable to THE NEW YORK TIMES.

PARIS, Saturday, Jan. 3.-Marshal Joffre died at 8:23 o'clock this morning. His life had been despaired

Doctor Announces Death.

Marshal Joffre died at 8:23 A. M. today.

At 8:30 A. M. Captain Saint Cernin emerged from the hospital where Joffre had been at death's door for days, and said to reporters;

"The Marshal is dead."

Then he displayed a bulletin signed FOUR TO SHARE THE D. & H. by the Marshal's physicians.

Six Days in Coma. Special Cable to THE NEW YORK TIMES.

### Prof. Einstein Begins His Work at Mt. Wilson; Hoping to Solve Problems Touching Relativity

By The Associated Press.

he came to California.

ogy to solve the major problem of his pected. mind, whether gravitation, light, electricity and electro-magnetism are not different forms of the same thing.

lem of the present relativity theory," | that not only light but also matter he explained. "Interesting possibili- had been disclosed by modern physties have been found to solve the ics to show characteristics of both question, but it is still uncertain if theories. He hopes that both will the ways being tried will be success- be united in the same law applying

Humason (astronomers at Mount to matter. Wilson) concerning the red shift of light in distant nebulae make the pre- | was in danger of any breakup. sumptions near that the general structure of the universe is not international understanding and or-

"Theoretical investigations made he said. by La Maitre and Tolman (mathema-

Bernet Announce Agreement

on Allocation of Roads.

PASADENA, Cal., Jan. 2 .- Dr. | The Berlin professor seems very Albert Einstein disclosed today why happy to be among so many men working on physical tests of his rela-He expects help from the scientists | tivity principle. Several of them have at Mount Wilson Observatory and completed tests supporting his printhe California Institute of Technol- ciple and further revelations are ex-

Professor Einstein revealed another problem puzzling research workers. That is whether light conforms to a "This question is the main prob- wave or corpuscular theory. He said to light and that the construction of "New observations by Hubble and this law also will make it applicable Covernor Announces Policy

He was asked whether civilization

"I think, indeed, that the lack of ganization may be a serious danger,'

"In this connection, scientific inticians of California Institute of vestigations can have no direct influ-Technology) show a view that fits ence on a solution to this problem. well into the general theory of rel- Only man's own determination can

Atterbury, Crowley, Willard and Dr. Heyl Tells Scientists of Year Tests With Glass and Tungsten Wire in a Vacuum.

TONNAGE IN 22 FIGURES

B. & O. to Enter Michigan by Average Boy Wants to Be a books with its provision that terms

Will Appoint Heads of Departments Irrespective of Pleas of Party Leaders.

ALONE TO COUNT

Following Outburst Over Behan From Albany Boss.

LATTER FOR SMITH IN 1932

Executive Confers With Eric Group and Lays Plans for New Leadership Up-State.

By W. A. WARN.

Special to The New York Times. ALBANY, Jan. 2 .- At the very beginning of his second term in office Governor Roosevelt has informed the leaders of his party throughout the State that from now on appointments to places in his Cabinet will all be personal in the sense that they will be made regardless of whether the appointee has political backing so long as he measures up by the Governor himself.

Definite announcement of this pol- \$8,000,000 Affiliates Owed Was icy came at the moment when, for the first time since the consolidation act of 1926 has been on the statute of administrative department heads SINGER TESTIFIES TO DEALS

### Census of Jobs Will Count Apple Sellers as 'Employed'

Special to The New York Times. WASHINGTON, Jan. 2.-Officials in charge of the census of unemployed to be started Jan. 15 in twenty representative cities will be instructed to enumerate as employed the street-corner venders of apples, despite their "unemployed" placards.

A conference of experts of the Census Bureau reached the decision today. The ruling was suggested by F. A. Gosnell, who has just returned from a trip to Chicago, Buffalo, New York, Detroit and Philadelphia, setting up the machinery for the census.

Mr. Gosnell stated that he had learned in his investigation that many persons selling "unemployed apples" were earning a good living.

to standards of fitness established Receiver's Counsel Contends Paid With Its Own Cash.

Hilly Is Expected to to Appellate Brand

BRODSKY DEALS ATT

Referee Finds Him Disc by Stock Speculation Realty Transaction

BROOKLYN JUDGE AC

Magistrate Eilperin to Ouster Hearing-Goo Reported "Very !!!

The Appellate Division inc magistrates' courts was decl stitutional in a decision hand yesterday by Supreme Cour Callahan who issued a pe mandamus directing the cit lawyers' salaries certified by Samuel Seabury and rejecte "All the News That's Fit to Print."

## The New York Times.

THE WEATHER

Fair today; tomorrow cloudy; little change in temperature.

Temperatures yesterday-Max. 45, min. 29.

VOL. LXXX.... No. 26,675.

NEW YORK, THURSDAY, FEBRUARY 5, 1931.

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## YOUNG FAVORS CASH BONUS URGES FEDERAL BANK CURB

## TWO COMMITTEES HEAR HIM

\$500,000,000 for Loans on Service Certificates Urged by Financier.

HUGE BOND ISSUE OPPOSED

Not More Than 30 Per Cent of the Veterans Are in Want, He Estimates.

IDEAS ON BANKING GIVEN

Forcing of State Institutions Into the Reserve System Is Advocated.

Special to The New York Times. WASHINGTON, Feb. 4.-Although opposed to extensive government financing to provide cash bonus payments to veterans of the World War, Owen D. Young, chairman of the board of the General Electric Company, today urged on the Ways and

### Not a Presidential Candidate, Young Twice Tells Reporters

Special to The New York Times. WASHINGTON, Feb. 4 .- Owen D. Young told two groups of newspaper men here today that he was not a candidate for the Presidency.

"You are doing your best to keep me from being nominated, I see," Mr. Young said to one group after he appeared before the Senate committee. "I hope you keep it up, as you are doing me a favor."

After the House committee hearing he reiterated his position thus: "I am not in politics and any

one who prevents me from receiving the nomination for President will be doing me a favor. Not that I think that I am in the least danger. I am not a candidate."

## EINSTEIN DROPS IDEA OF 'CLOSED' UNIVERSE

Revises Concept of Cosmology From New Equations of His Unified Field Theory.

## HOOVER WILL CALL A SPECIAL SESSION IF OTHER AID FAILS

But He Is Confident Measures Taken or in Hand Will Meet All Needs.

**CONFERS AGAIN ON IMPASSE** 

Discusses With Watson and McNary Proposals for Compromise on \$25,000,000 Bill.

ORDERS ARKANSAS SURVEY

Settlement May Hinge on Fund to Be Lent Red Cross at President's Discretion.

### By RICHARD V. OULAHAN.

Special to The New York Times. WASHINGTON, Feb. 4.-Although as firmly opposed as ever to calling the next Congress into an extra ses sion, President Hoover will summon such a session if it is found that the relief measures already taken to mitigate unemployment and overcome suffering in the drought-stricken farm areas are inadequate and renecessary.

This became known today through a semi-authoritative source, but the President's apparent willingness to modify his opposition to having an BASED ON AMERICAN STUDY extra session should be viewed chief-

## Caraway Calls Cramton 'Liar' Over Phone; In Senate, Challenges Critics to Repeat Slurs

Special to The New York Times.

WASHINGTON, Feb. 4 .- The feud | asked the Michigan Representative Cramton of Michigan and Treadway of Massachusetts blazed up anew today. The Arkansan called Mr. Cramton on the telephone, told him he was a "coward" and a "liar" and later Michigan and Massachusetts Representatives to repeat to him privately their respective references to him, made in the House yesterday, as "a plain unadulterated liar," and as having 'a contemptible disregard of the truth."

Later Senator Caraway went to the House and spent some time, stalking around, but expectations of a personal encounter were not fulfilled. He spoke neither to Mr. Cramton nor Mr. Treadway. The Arkansan said he was looking for Mr. Treadway who, the Senator had heard, would make a speech calling him a "damn liar." Mr. Treadway did not

Senator Caraway's efforts to get satisfaction from Mr. Cramton on the telephone were apparently unsuccessful. Describing his attempts to demand an explanation, he said he

between Senator Caraway of Arkan- to meet him "any time, any place, sas on one side and Representatives anywhere," and repeat his accusations. Mr. Cramton, according to Mr. Caraway, said what he had stated on the House floor stood for Reconsideration of Position May itself and hung up, but not soon enough, according to the Arkansan, to prevent him from shouting "cowon the Senate floor challenged the ard" and "liar," and even stronger language. Thereafter he tried several times to telephone to Mr. Cramton, but received no answer.

> When Senator Caraway entered the House chamber he talked for a short time to Mrs. Pearl Oldfield, one of the Arkansas Representatives. Then he walked up and down the main aisle, his hands jammed into his pockets and his head bent down. Mr. Cramton sat at a table near by with Representative Schafer of Wisconsin, who kept punching Mr. Cramton to attract his attention to the Arkansas Senator. But Mr. Cramton paid no attention to either punches or the visitor and the latter made no effort to approach him.

> Some of Mr. Treadway's associates said he was "so mad we persuaded him to go home," but there was no

> > Continued on Page Thirteen.

Hope Westchester Boss Will Give Necessary Votes.

course to Congressional aid is found Senate Republicans Walt in Bogus Lawyer Tells of Dividing Client's Collateral With Kurtz, Then a Banton Aide.

Be Forced on London, Parliament Is Told.

TONNAGE DISPARITY SEEN

First Lord of Admiralty Says Continentals Build Twice as Much as Empire.

1930 TREATY UNAFFECTED

Alexander Thinks Any Increase Needed in Program Could Be Within Quota Limits,

Special Cable to THE NEW YORK TIMES. LONDON, Feb. 4.-A. V. Alexander, the First Lord of the Admiralty, caused some surprise at question time in the House of Commons today when he announced that the MacDonald Government would have to "reconsider the position" if unable to get France and Italy to adhere to the principle of limitation in consideration of naval programs.

Mr. Alexander first informed Major tonnage of vessels under construction by members of the British Commonwealth was 46,145 (comprising 43,489) tons for the United Kingdom and 2,656 for Canada). The corresponding tonnage for France was approxi-

## Nassau Splits \$1,250,000 Loan Among 24 Banks Fighting for It

Special to The New York Times. MINEOLA, L. I., Feb. 4. Nassau County's commercial paper is in such demand that the banks are fighting for the privilege of lending money on it. Twenty-four banks applied to County Treasurer A. Burnside Cheshire to be allowed to take up the county's application for a loan of \$1,250,000 which was announced on Monday as the first instalment of \$6,000,000 which the county will borrow for its 1931 construction and hospital program. The loan is to be secured by a bond issue, already authorized, which will be dated July 1, 1931.

To please all the banks, Mr. Cheshire decided to borrow money from each in amounts ranging from \$25,000 to \$100,000.

## ΙΙΠΠΠΙΙΙΙΟΨΙΙΟ

R. Ross, Conservative, that the total Gave Fortune to Charity During Life, Will Reveals, Reflecting His Wish to "Die Poor."

Insists Subsidiaries \ Used Criminally Divert Funds.

BOOKS DECE

Asserts \$99,000 in Loans \$100,000 in Realty Fees V Paid Out Illegally.

MITCHELL IS A WIT

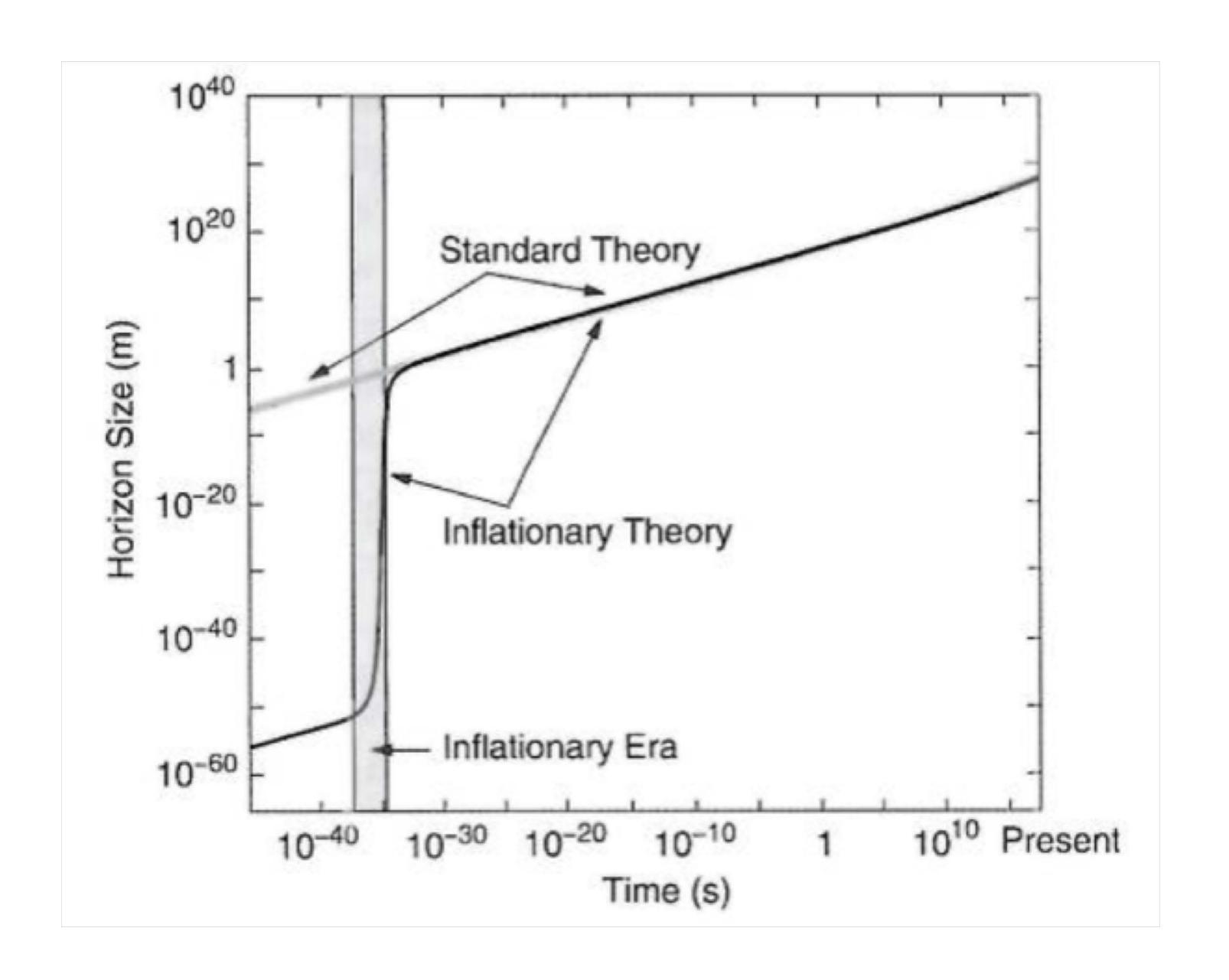
Appearance Before Grand Gives Rise to Report He Turn State's Evidence

Definite charges that mor he closed bank of United Stat diverted to officials of the br the form of loans to subsidiar violation of the banking laws made yesterday by Max D. in his investigation of the

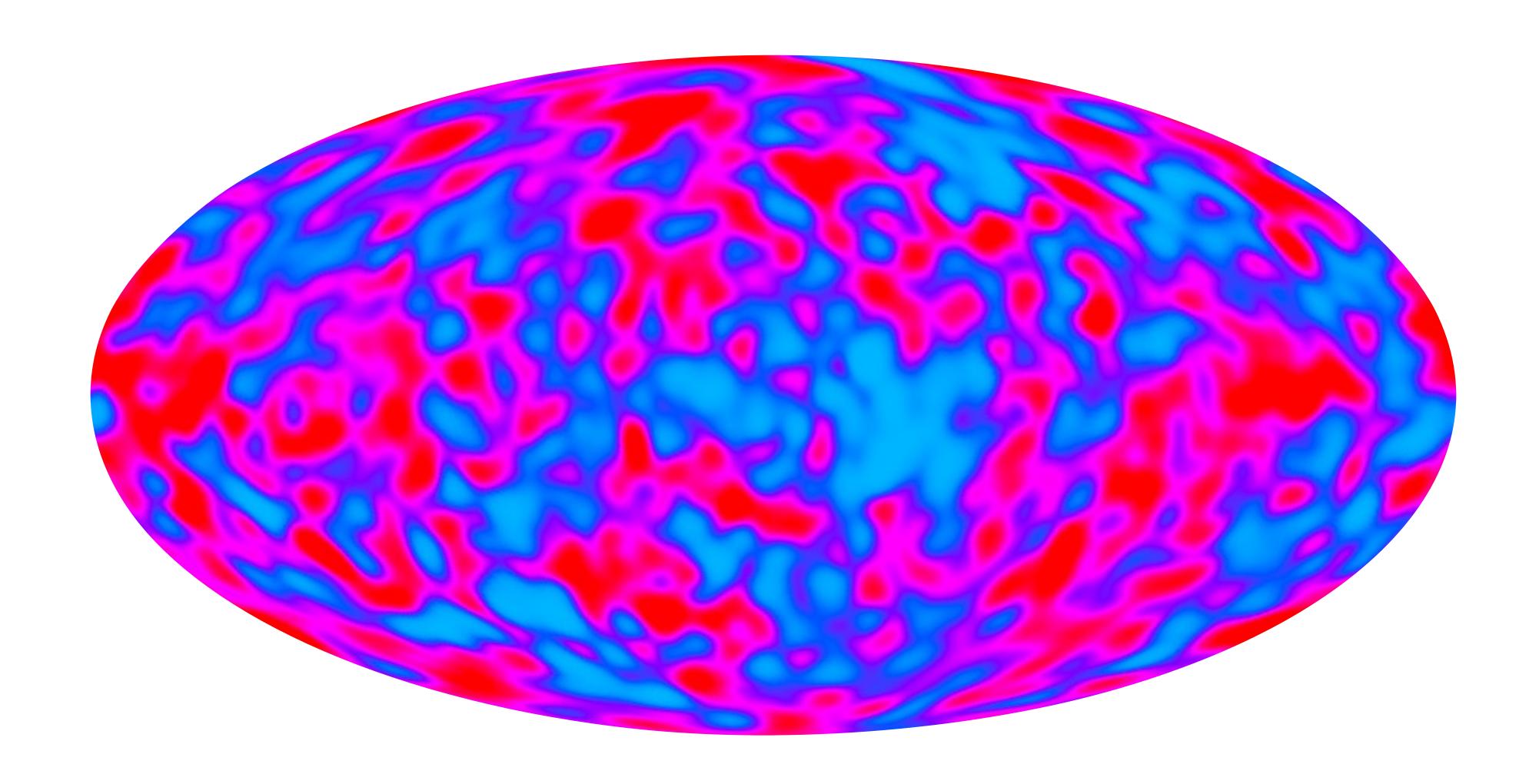
CLERKS ACCUSED ly as an indication of his complete DEMOCRATS PUT ON GUARD COURT mately 100,684, he said, but this ex- MOST OF SUM TO CHILDREN affairs. confidence that the measures already

## The Einstein-de Sitter Universe in the 1970s

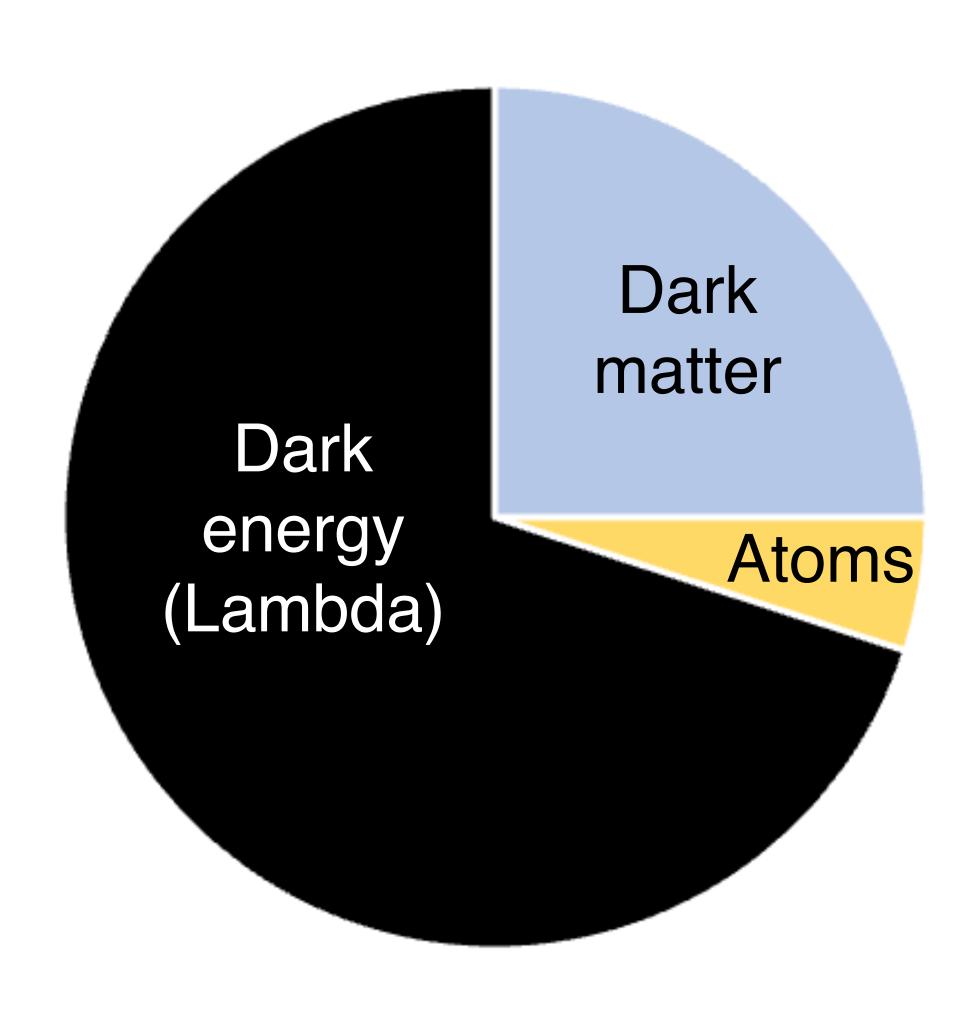


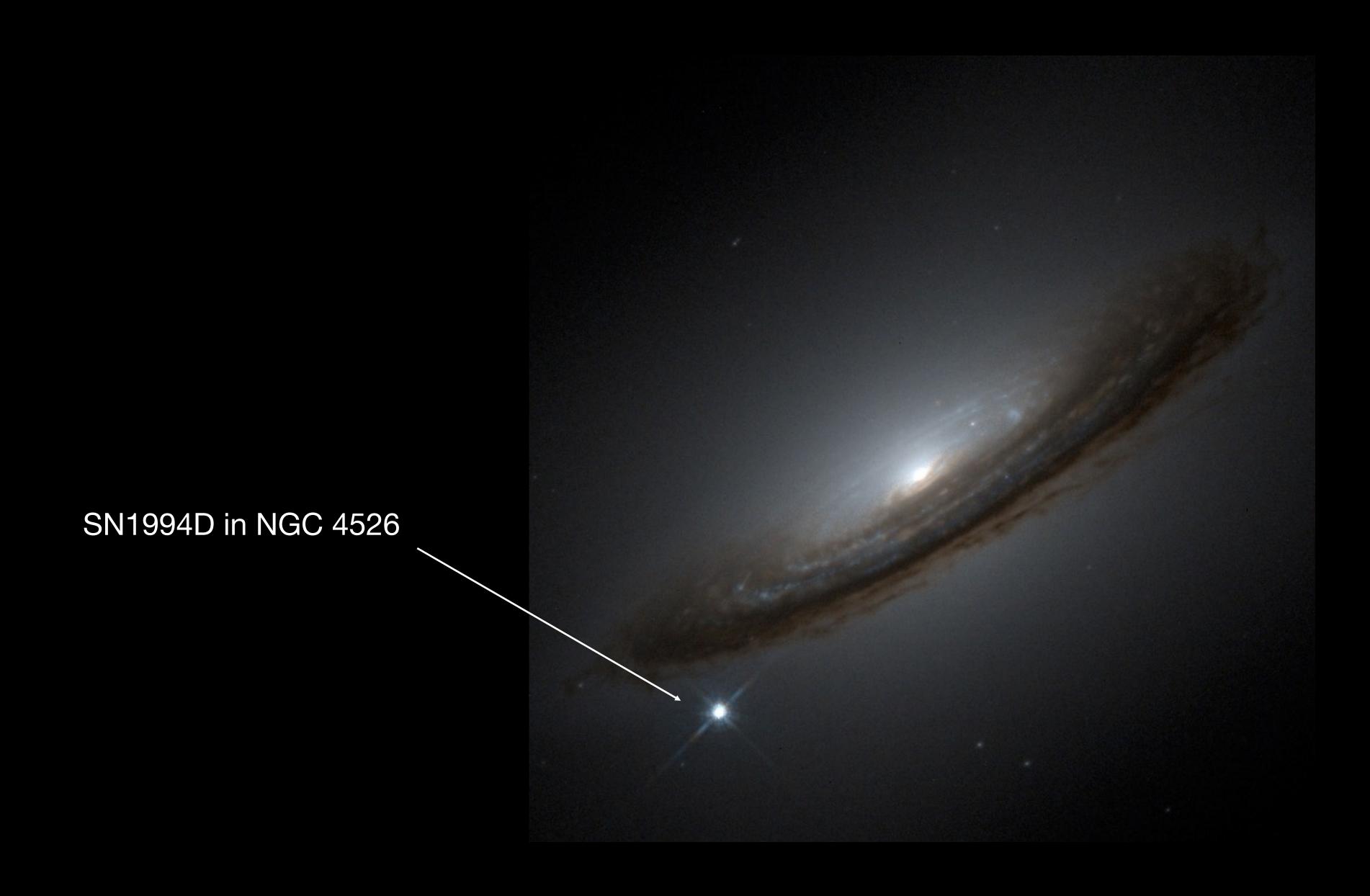


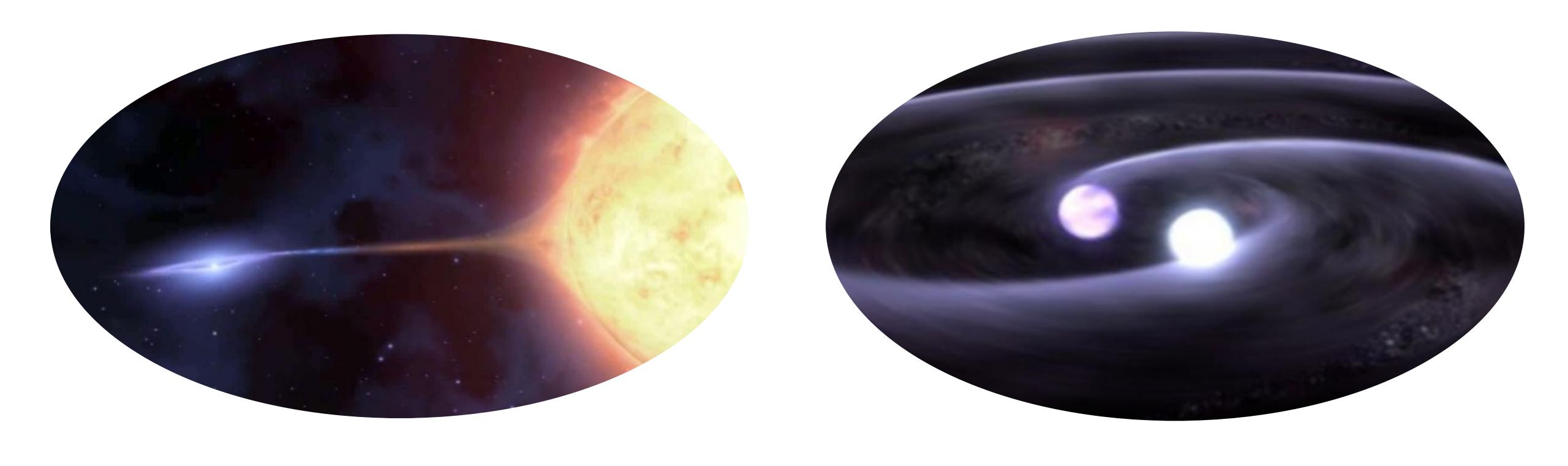
## Fluctuations in the cosmic microwave background

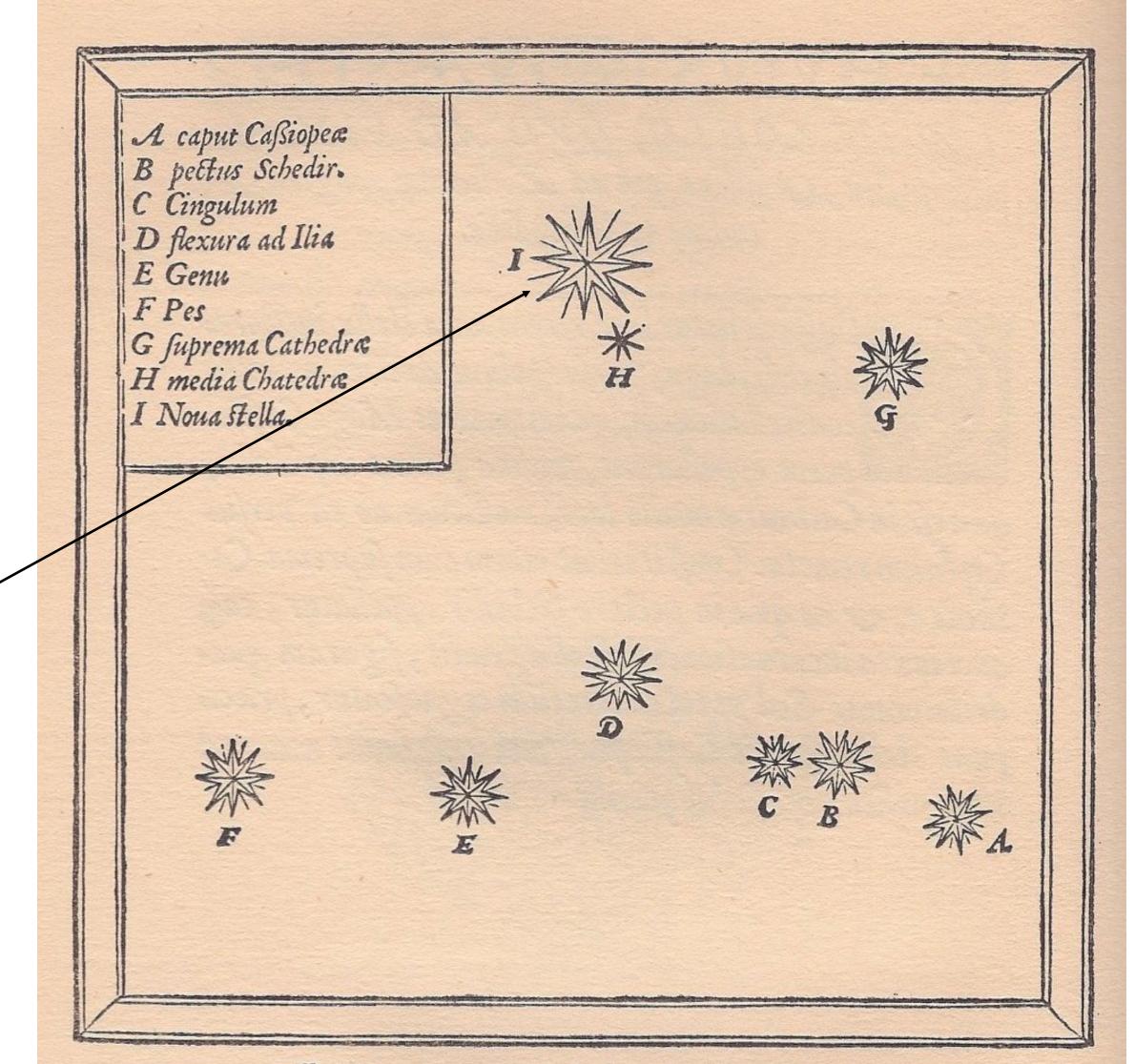


## The Lambda-CDM model









Distantiam verò huius stella à fixis aliquibus in hac Cassiopeia constellatione, exquisito instrumento, & omnium minutorum capaci, aliquoties observaui. In ueni autem eam distare ab ea, qua est in pectore, Schedir appellata B, J. partibus & 55. minutis: à superiori verò

Tycho Supernova (1572)

