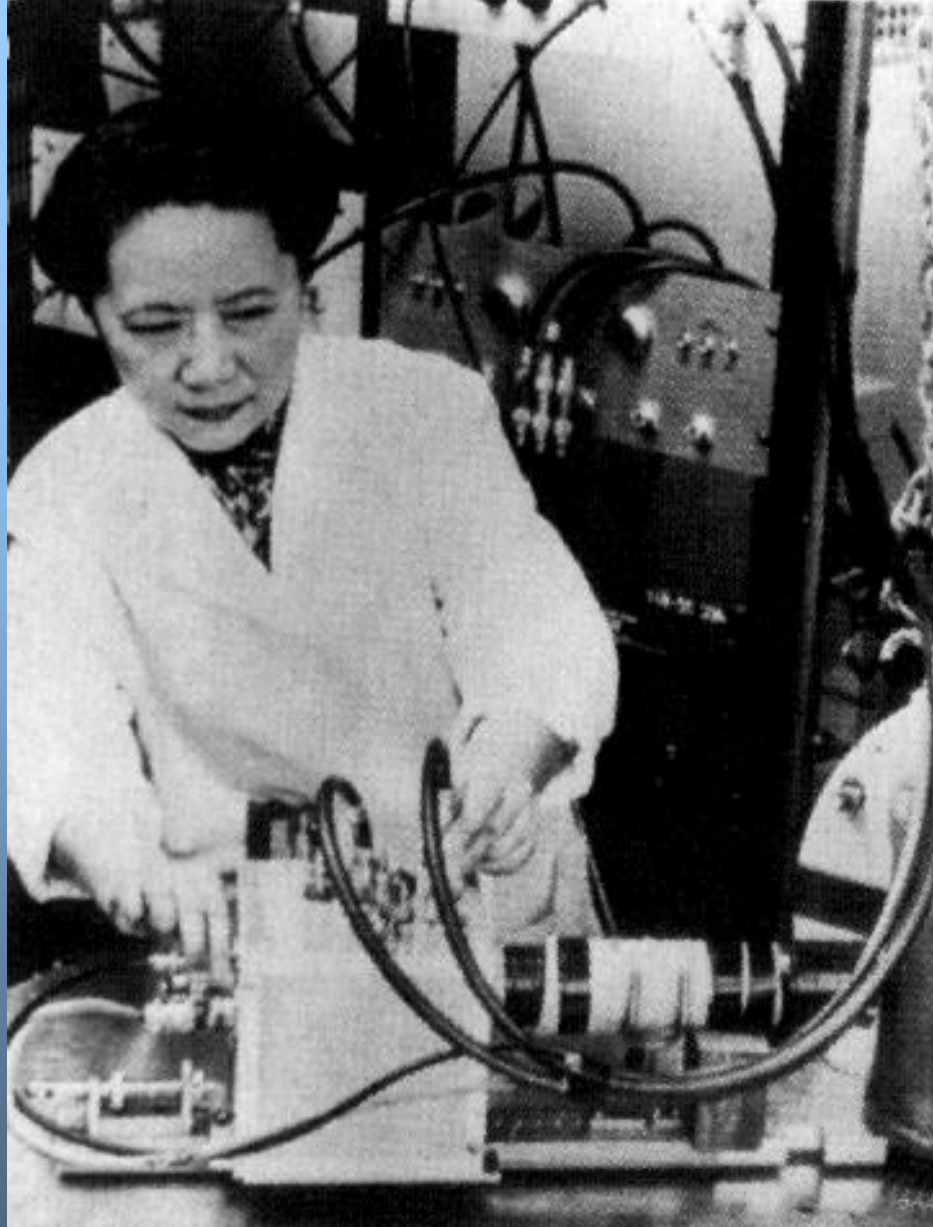


**In early January 1957
C. S. Wu announced
that her experiment
had shown that parity
is not conserved in beta
decay.**



C.S. Wu (1912-1997)

Her famous paper was in preprint form at that time. It was officially published a month later.

The branching ratio of the two modes of decay of Fm^{253} , i.e., $E.C./\alpha$, was found to be about 8.5—which gives $\sim 89.5\%$ decay by electron capture and $\sim 10.5\%$ by alpha emission. It was not possible to measure the cross section for the $\text{Cf}^{252}(\alpha,3n)\text{Fm}^{253}$ reaction because Fm^{253} could also be produced from other californium isotopes in the target.

A previous publication⁴ on a possible identification of the Fm^{253} gave the values of 6.85 ± 0.04 Mev for the alpha-particle energy, and a half-life > 10 days.

It is a pleasure to thank the crew of the 60-inch cyclotron for their extremely careful and skillful operation of the machine during the bombardment. We wish to thank Professor Glenn T. Seaborg for his continued interest.

* On leave from the Israel Atomic Energy Commission, Weizmann Institute of Science, Rehovoth, Israel.

¹ Thompson, Ghiorso, Harvey, and Choppin, *Phys. Rev.* **93**, 908 (1954).

² Harvey, Chetham-Strode, Ghiorso, Choppin, and Thompson, *Phys. Rev.* **104**, 1315 (1956).

³ Thompson, Harvey, Choppin, and Seaborg, *J. Am. Chem. Soc.* **76**, 6229 (1954); Choppin, Harvey, and Thompson, *J. Inorg. and Nuclear Chem.* **2**, 66 (1956).

⁴ Friedman, Gindler, Barnes, Sjolom, and Fields, *Phys. Rev.* **102**, 585 (1956).

Experimental Test of Parity Conservation in Beta Decay*

C. S. Wu, *Columbia University, New York, New York*

AND

E. AMBLER, R. W. HAYWARD, D. D. HOPPE, AND R. P. HUDSON,
National Bureau of Standards, Washington, D. C.

(Received January 15, 1957)

IN a recent paper¹ on the question of parity in weak interactions, Lee and Yang critically surveyed the experimental information concerning this question and reached the conclusion that there is no existing evidence either to support or to refute parity conservation in weak interactions. They proposed a number of experiments on beta decays and hyperon and meson decays which would provide the necessary evidence for parity conservation or nonconservation. In beta decay, one could measure the angular distribution of the electrons coming from beta decays of polarized nuclei. If an asymmetry in the distribution between θ and $180^\circ - \theta$ (where θ is the angle between the orientation of the parent nuclei and the momentum of the electrons) is observed, it provides unequivocal proof that parity is not conserved in beta decay. This asymmetry effect has been observed in the case of oriented Co^{60} .

It has been known for some time that Co^{60} nuclei can be polarized by the Rose-Gorter method in cerium magnesium (cobalt) nitrate, and the degree of polarization detected by measuring the anisotropy of the succeeding gamma rays.² To apply this technique to the present problem, two major difficulties had to be over-

come. The beta-particle counter should be placed *inside* the demagnetization cryostat, and the radioactive nuclei must be located in a *thin surface* layer and polarized. The schematic diagram of the cryostat is shown in Fig. 1.

To detect beta particles, a thin anthracene crystal $\frac{3}{8}$ in. in diameter $\times \frac{1}{8}$ in. thick is located inside the vacuum chamber about 2 cm above the Co^{60} source. The scintillations are transmitted through a glass window and a Lucite light pipe 4 feet long to a photomultiplier (6292) which is located at the top of the cryostat. The Lucite head is machined to a logarithmic spiral shape for maximum light collection. Under this condition, the Cs^{137} conversion line (624 keV) still retains a resolution of 17%. The stability of the beta counter was carefully checked for any magnetic or temperature effects and none were found. To measure the amount of polarization of Co^{60} , two additional NaI gamma scintillation counters were installed, one in the equatorial plane and one near the polar position. The observed gamma-ray anisotropy was used as a measure of polarization, and, effectively, temperature. The bulk susceptibility was also monitored but this is of secondary significance due to surface heating effects, and the gamma-ray anisotropy alone provides a reliable measure of nuclear polarization. Specimens were made by taking good single crystals of cerium magnesium nitrate and growing on the upper surface only an additional crystalline layer containing Co^{60} . One might point out here that since the allowed beta decay of Co^{60} involves a change of spin of

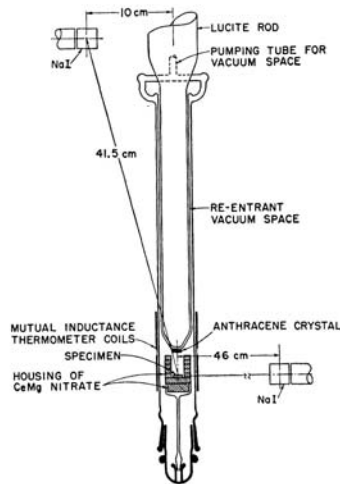


FIG. 1. Schematic drawing of the lower part of the cryostat.

In the meantime, news spread like wild fire in the world of physicists.

**At the Annual meeting
of the American
Physical Society on
February 2, at the new
Yorker Hotel,**

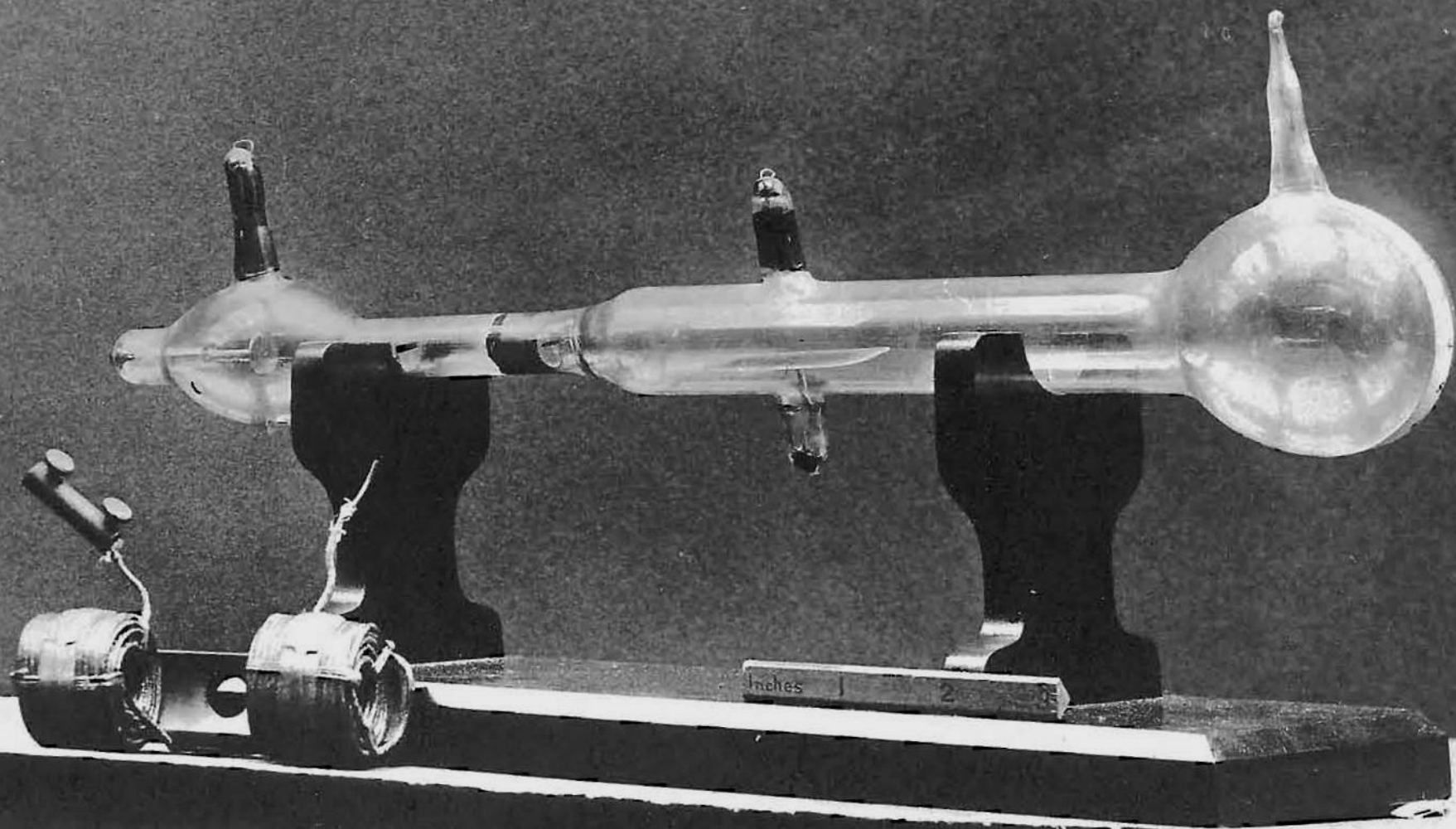
The largest hall normally at our disposal was occupied by so immense a crowd that some of its members did everything but hang from the chandeliers.

**That 1957 excitement
among physicists was
exceeded only 40 years
later in the high
temperature
superconductivity
“Woodstock” meeting
of 1997.**

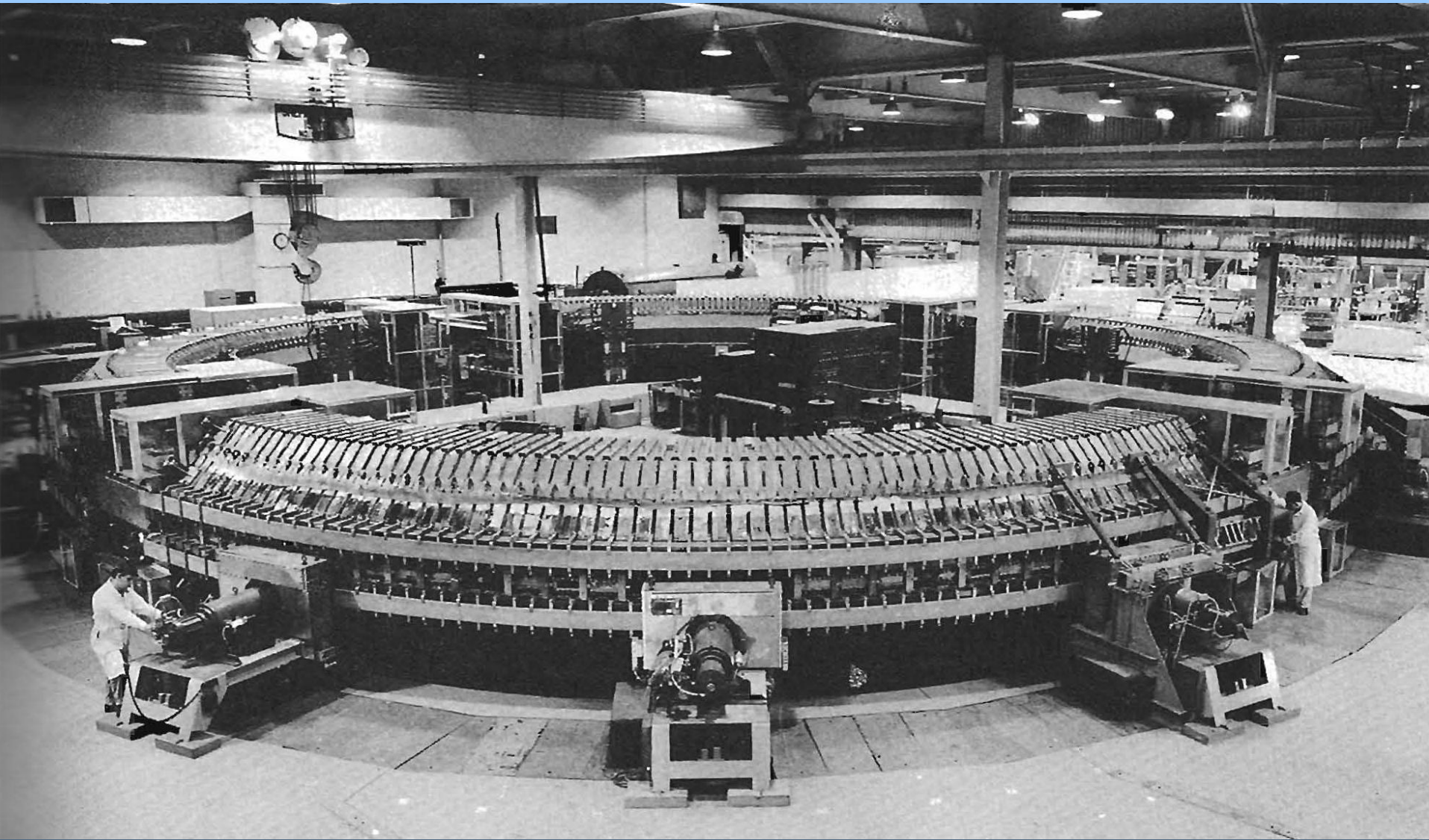
I Background

**Experiments in physics
were small in scale
before WWII.**

**Typical example is
Thomson's 1897
apparatus:**

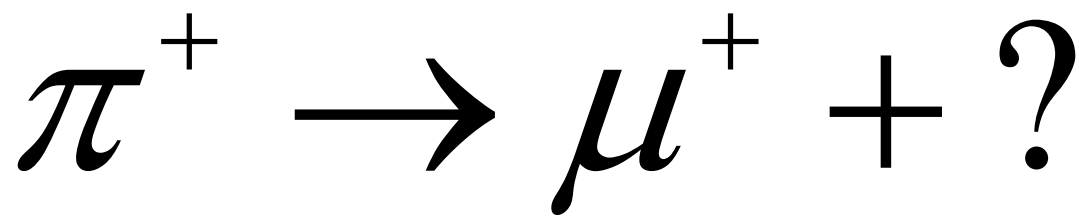
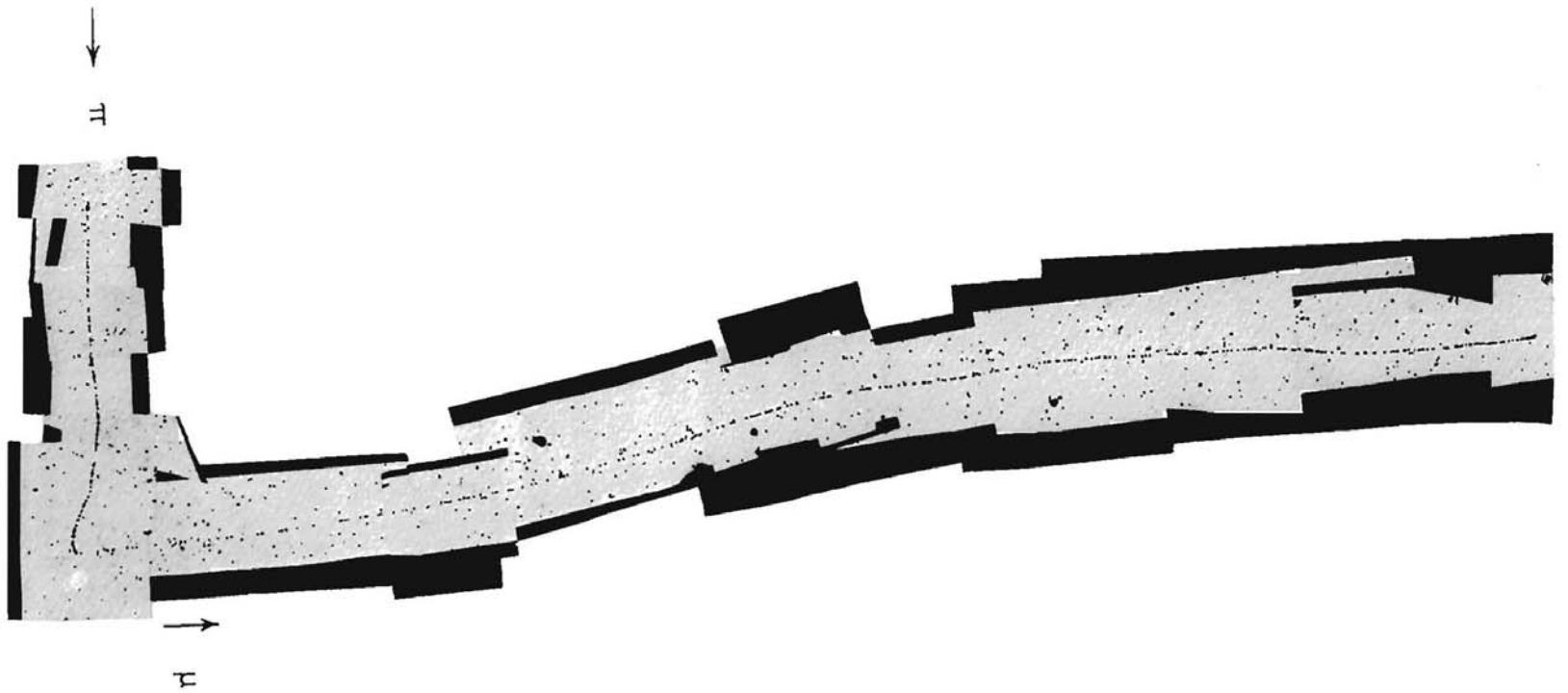


After WWII, nuclear physics became a very hot field of research. Larger and larger accelerators were built.





**With these accelerators,
and with cosmic ray
experiments, many new
kinds of “elementary
particles”, previously
unknown, were
discovered.**

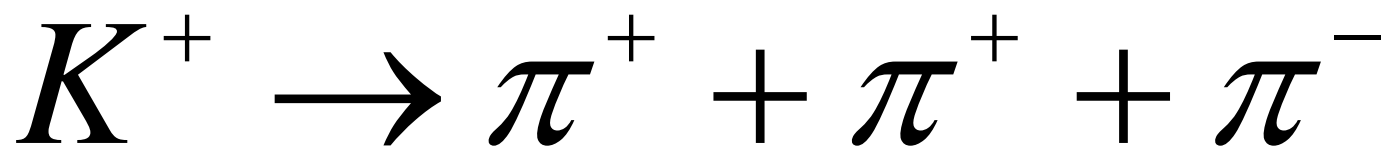
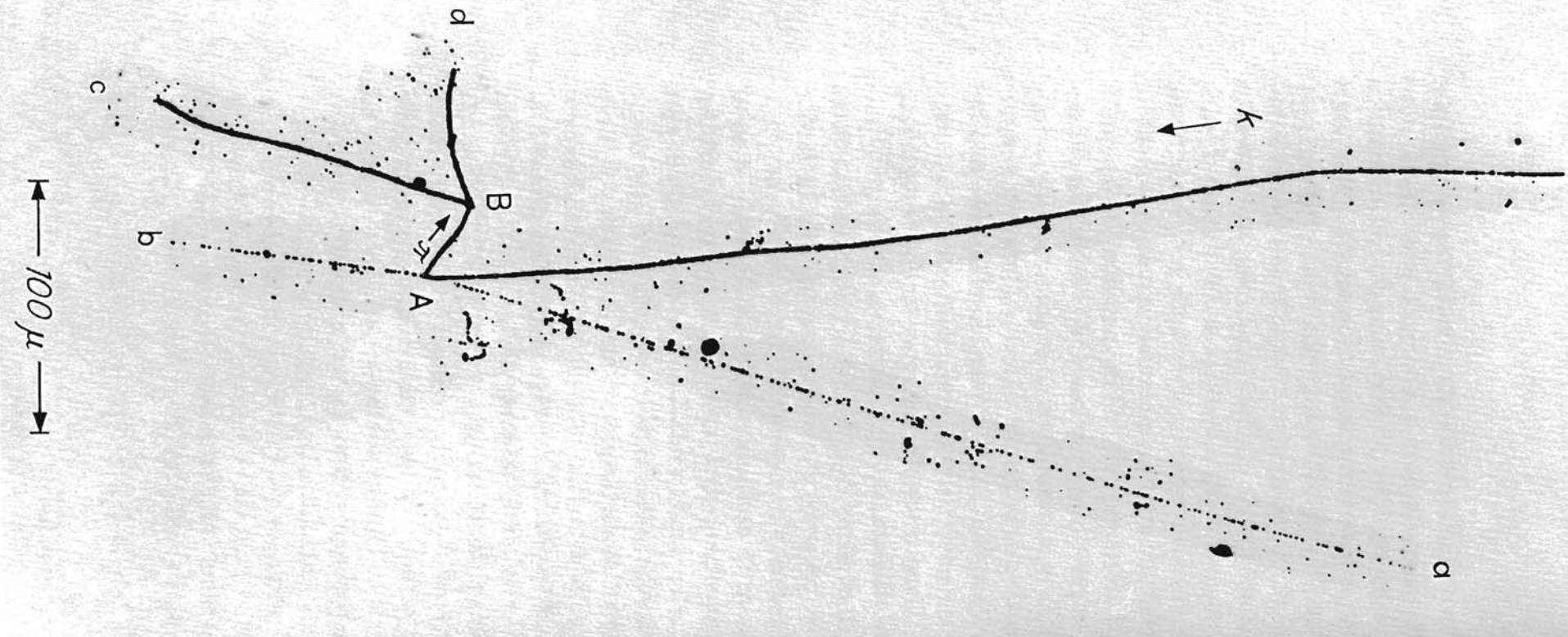


**The particle π had
been predicted in 1935
by Yukawa.**

**Discovery of π , and
its daughter μ caused
great excitement in
1947.**

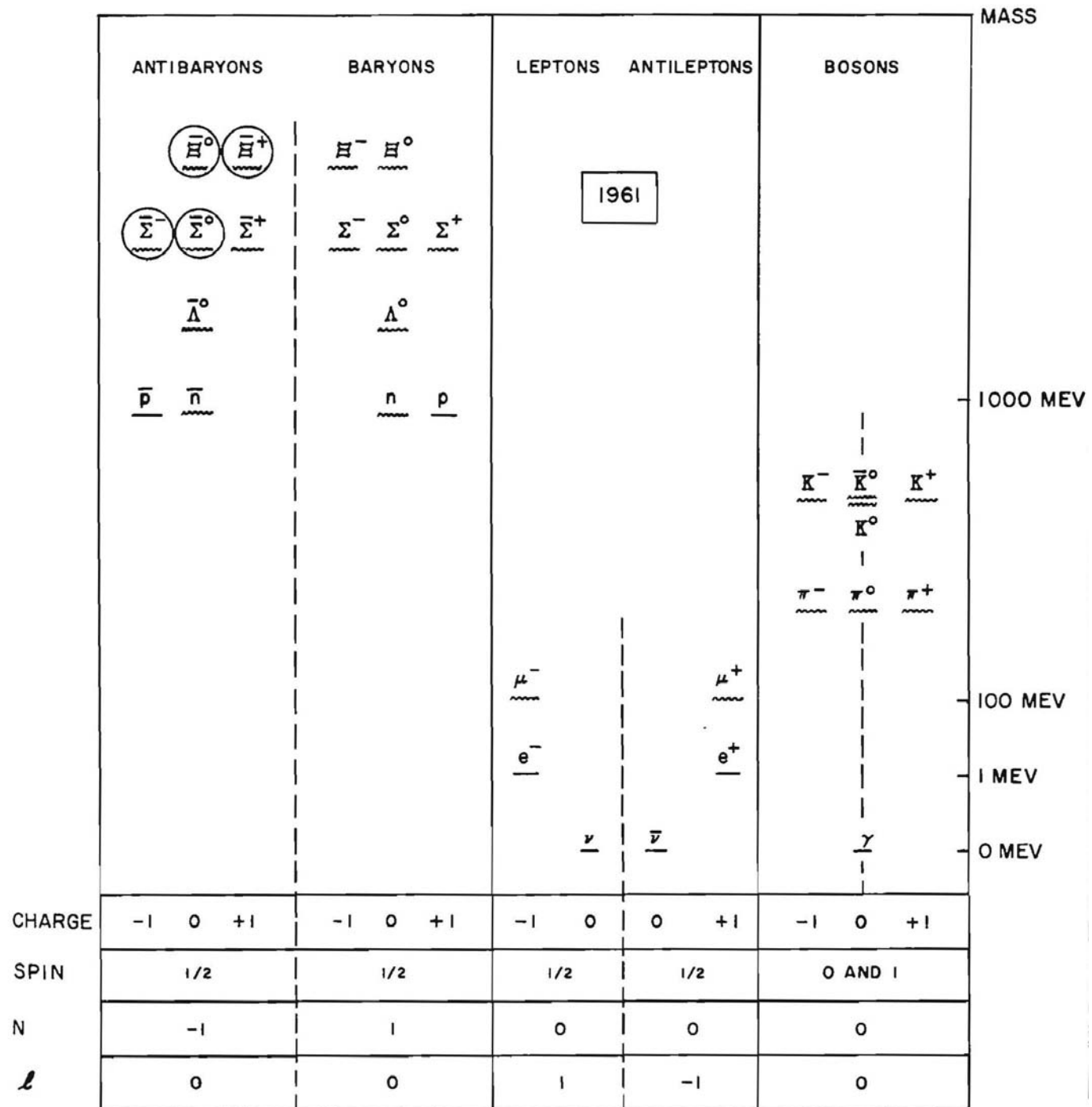
But then, in the next few years, several additional particles were discovered.

**They were unexpected,
so they were called
strange particles.**



**For the next 15 years,
1950-1965, fundamental
physics was chiefly
occupied with
identifying these strange
particles, and studying
their properties:**

- **whether they are charged, \pm , or neutral**
- **their masses**
- **how they decay**
- **whether they have “spin”
etc.**



The K particle had first been called τ , to distinguish from θ particles:

$$\theta^+ \longrightarrow \pi^+ + \pi^0$$

**τ and θ were thought
at first to be totally
unrelated particles.**

But then other K particles were discovered, so there was great confusion:

$$K_{\pi 2} = \theta, \quad K_{\pi 3} = \tau,$$

$$K_{\mu 2}, \quad K_{\mu 3}, \quad K_{e 3} \quad \textit{etc.}$$

There was also great subtlety. E.g. Gell-Mann theoretically predicted there should be 2 kinds of K^0 .



II

The $\theta - \tau$ Puzzle

**Between 1954-1957, the
hottest debate was the
 $\theta - \tau$ puzzle.**

$$\theta^+ \rightarrow \pi^+ + \pi^0$$

$$\tau^+ \rightarrow \pi^+ + \pi^+ + \pi^-$$

On the one hand, more and more precise experiments showed that θ^+ and τ^+ have the same masses,

**and have very
comparable longevity.**

So they seem to be the same particle, with 2 different ways of decay: into 2π 's, or into 3π 's.

But on the other hand,
each particle has a
“parity”, and there was a
FUNDAMENTAL LAW:

Conservation of Parity

**Which says in decays,
parity cannot change.**

π^+ , π^0 , π^- all have parity of **(-1)**.

$\theta^+ \rightarrow \pi^+ + \pi^0$ has parity **+1**.

$\tau^+ \rightarrow \pi^+ + \pi^+ + \pi^0$ has parity **-1**,
(most likely).

**Most likely, because
some details about
 τ decay had to be
examined to rule out
“orbital” contribution to
parity.**

Dalitz Plot

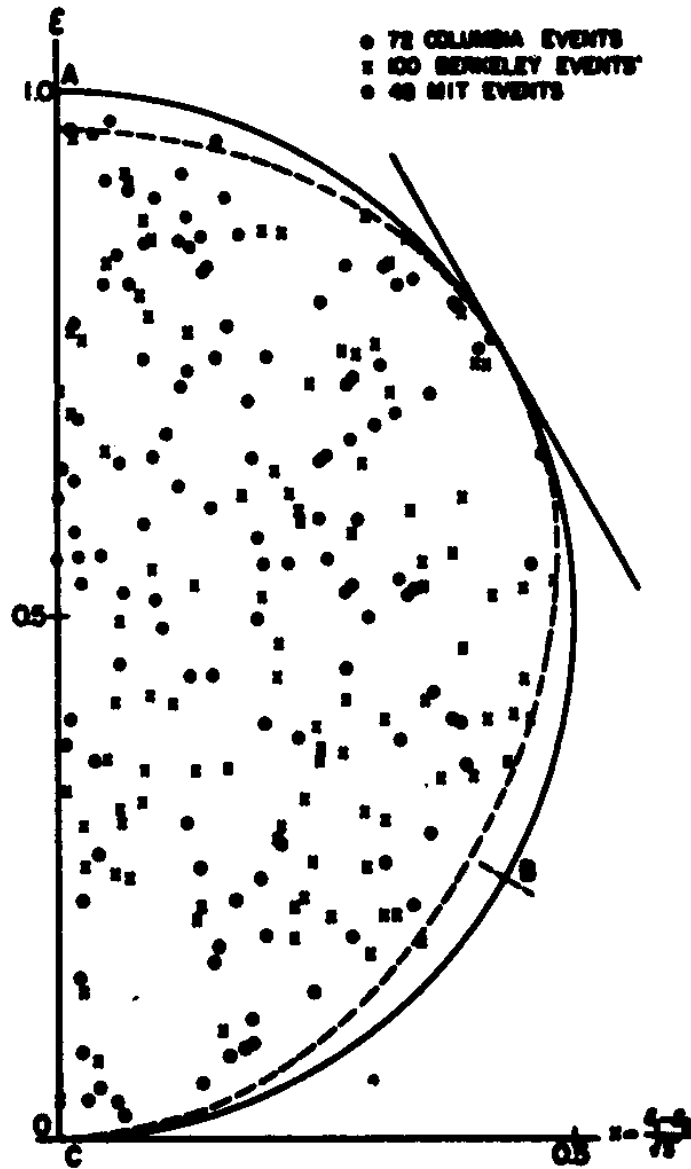
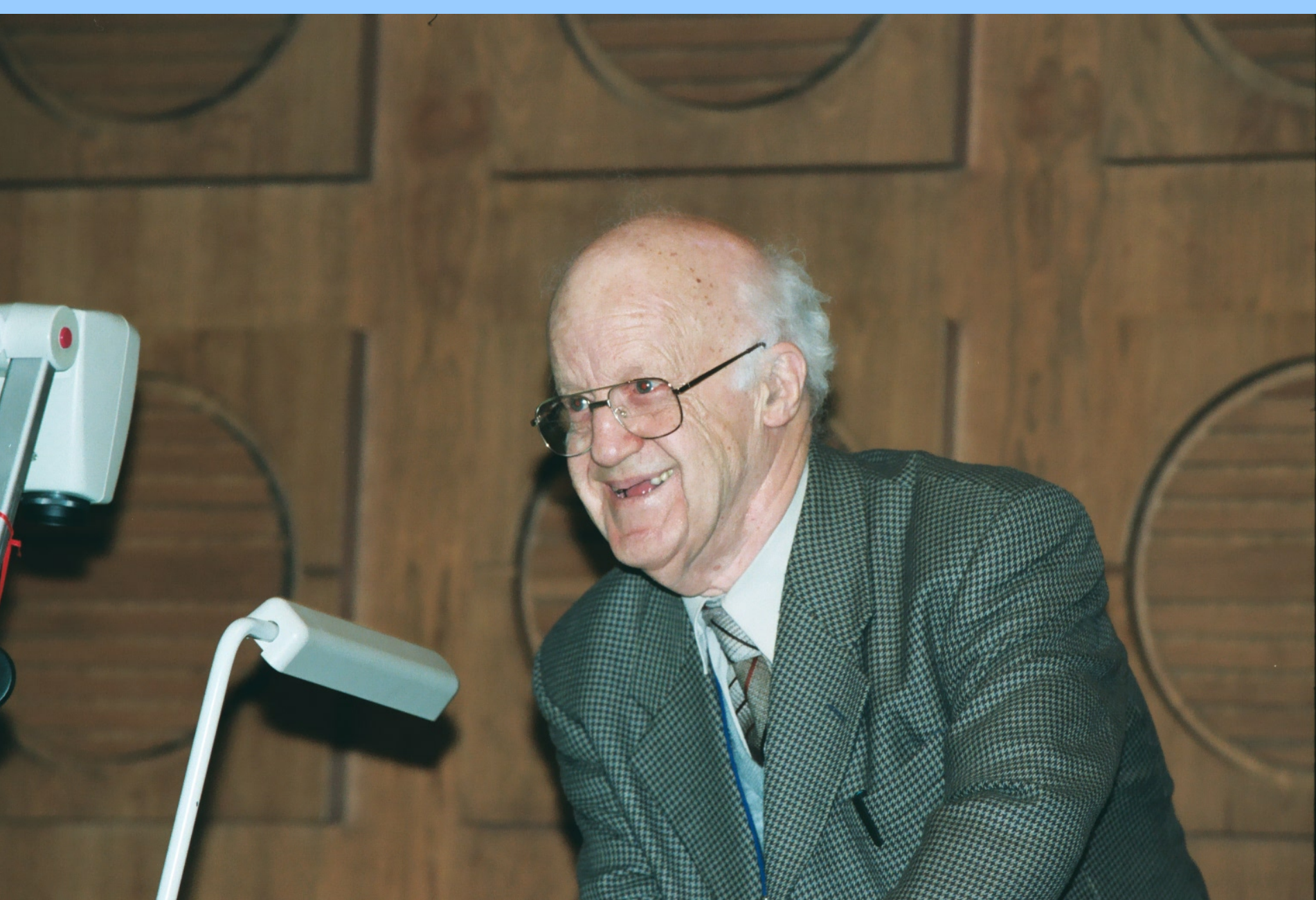


Fig. 4



**At the International
Conference on High
Energy physics, April 3-6,
1956, at Rochester in New
York State, (the most
important conference in
physics in the 1950's)**

Dalitz's summarized the works of the previous two years, showing that the hundreds of τ decays studied gave a uniform distribution in the Dalitz plot.

**Hence no “orbital”
parity.**

**Hence τ does have
parity of (-1) !**

**Hence by parity
conservation,
 θ and τ cannot be
the same particle.
Hence PUZZLE!**

Explicitly and Implicitly:

Could Parity be
not conserved?

**Three reasons why
people believed in
parity conservation.**

**I. Parity Conservation
means physical universe
is right-left symmetrical.**

**This seems a priori
indisputable. And it is
also born out by
Newton's equations,
and Maxwell's
equations.**

**II. Right-left
symmetry has great
intuitive and aesthetic
appeal.**

III. After the 1920-1930's, QM showed that parity is accurately conserved in atomic physics.

**And indeed that
conservation became a
powerful tool used
effectively in
theoretical and
experimental research:**

- **first in atomic and molecular physics.**
- **then in nuclear decays.**
- **then in nuclear reactions.**

**In particular, in
hundreds of beta decay
experiments,**

“selection and intensity rules” involving parity conservation were found to be in good agreement with experiments.

Thus:

**It is inconceivable that
parity can be not
conserved!**

“The situation physicists found themselves in was like that of a man in a dark room groping for an exit. He knew there is a door somewhere. But in which direction?”

III

Three Key Developments

**1. Maybe for most forces,
parity is conserved,

but for some forces, it
is not.**

This led to a detailed examination of parity conservation in weak forces, in particular, in beta decay.

2. All previous experiments in beta decay had nothing to do with parity conservation.

**I.e. Parity conservation
was, up to then,
UNTESTED in beta
decay.**

3. We then suggested several experiments to test parity conservation in beta decay and in other weak interactions.

“The fact that parity conservation in the weak interactions was believed for so long without experimental support was very startling.”

But what was more startling was the prospect that a space time symmetry law which the physicists have learned so well may be violated.

This prospect did not appeal to us. Rather we were, so to speak, driven to it through frustration with the various other efforts at understanding the θ - τ puzzle that had been made.”

**The paper by Lee and
Yang was submitted on
June 22, 1956.**

Is Parity Conserved in Weak Interactions?*

Brookhaven National Laboratory, Upton, New York

Recent experimental data indicate a violation of parity conservation in the β -decay of the Λ^0 (1115) and the Σ^0 (1193) hyperons. On the other hand, analysis of the decay products of Λ^0 strongly suggests that parity is conserved in the β -decay of the Λ^0 .

Abstract

The question of parity conservation in β -decays, and hyperon and meson decays is examined. Possible experiments are suggested that might test parity conservation in these interactions.

Question of Parity Conservation in Weak Interactions*

T. D. LEE, *Columbia University, New York, New York*

AND

C. N. YANG,† *Brookhaven National Laboratory, Upton, New York*

(Received June 22, 1956)

The question of parity conservation in β decays and in hyperon and meson decays is examined. Possible experiments are suggested which might test parity conservation in these interactions.

RECENT experimental data indicate closely identical masses¹ and lifetimes² of the θ^+ ($\equiv K_{\pi 2}^+$) and the τ^+ ($\equiv K_{\pi 3}^+$) mesons. On the other hand, analyses³ of the decay products of τ^+ strongly suggest on the grounds of angular momentum and parity conservation that the τ^+ and θ^+ are not the same particle. This poses a rather puzzling situation that has been extensively discussed.⁴

One way out of the difficulty is to assume that parity is not strictly conserved, so that θ^+ and τ^+ are two different decay modes of the same particle, which necessarily has a single mass value and a single lifetime. We wish to analyze this possibility in the present paper against the background of the existing experimental evidence of parity conservation. It will become clear that existing experiments do indicate parity conservation in strong and electromagnetic interactions to a high degree of accuracy, but that for the weak interactions (i.e., decay interactions for the mesons and hyperons, and various Fermi interactions) parity conservation is so far only an extrapolated hypothesis

PRESENT EXPERIMENTAL LIMIT ON PARITY NONCONSERVATION

If parity is not strictly conserved, all atomic and nuclear states become mixtures consisting mainly of the state they are usually assigned, together with small percentages of states possessing the opposite parity. The fractional weight of the latter will be called \mathfrak{F}^2 . It is a quantity that characterizes the degree of violation of parity conservation.

The existence of parity selection rules which work well in atomic and nuclear physics is a clear indication that the degree of mixing, \mathfrak{F}^2 , cannot be large. From such considerations one can impose the limit $\mathfrak{F}^2 \lesssim (r/\lambda)^2$, which for atomic spectroscopy is, in most cases, $\sim 10^{-6}$. In general a less accurate limit obtains for nuclear spectroscopy.

Parity nonconservation implies the existence of interactions which mix parities. The strength of such interactions compared to the usual interactions will in general be characterized by \mathfrak{F} , so that the mixing will be of the order \mathfrak{F}^2 . The presence of such interactions

IV

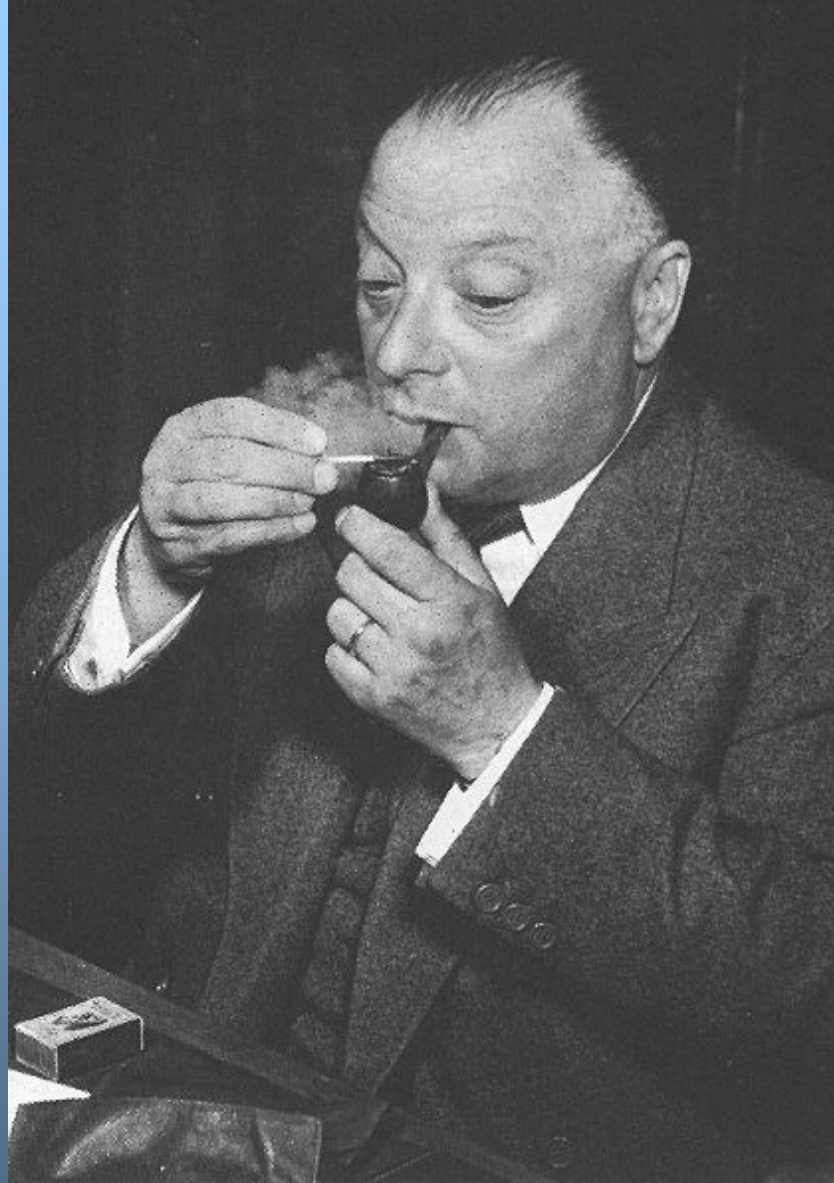
Reaction

General Disbelief

**The formidable
Pauli wrote:**

*“I do not believe that
the Lord is a weak
left-hander,*

and I am ready to bet a very high sum that the experiment will give symmetric angular distribution of the electrons.”



Wolfgang Pauli (1900-1958)

Feynman, a brilliant theoretical physicist, then 36 years old, made a bet that parity is conserved, at the overwhelming odds of 50 to 1.



Richard Feynman (1918-1988)

F. Bloch, who had won the Nobel Prize for NMR, the technology that led later to MRI, said he would eat his hat if parity is not conserved.



F. Bloch (1905-1983)

Lee and I felt we had pointed out an important fact:

the lack of experimental proof that parity is conserved in weak interactions.

**But we did not
believe that parity is
indeed nonconserved
in any interactions.**

So after our paper was submitted in June 1956, we turned our main attention to another field of physics:

Statistical Mechanics.

V

Wu's Experiment

In the meantime, most experimental physicists did not want to tackle the experiments we had suggested.

Because they felt the experiments we suggested were all difficult, and doing them would only confirm what everyone already knew was true,

i.e. parity is conserved.

**So they were not worth
doing.**

**But Wu had deeper
strategic perception:**

**She also did not feel
parity could be
nonconserved.
(She was a friend and
admirer of the great
Pauli.)**

**But she felt a
fundamental law of
nature must be tested
experimentally.**

“獨具慧眼”

She was a great β -decay physicist. She recruited four low temperature physicists from the Bureau of Standards to collaborate on one of the experiments we had suggested:

**β -decay of polarized
radioactive Co^{60} .**

**So for the next 5 months
she shuttled between
New York City and
Washington D.C..**

They had many difficulties, since β -decay and low temperature were two new technologies which had not yet been brought together in one experiment.

**Many tactical problems
had to be solved.**

For example, the low temperature required them to make a big crystal to hold the Co^{60} sample.

**So they had to learn the
technology of making
big crystals.**

After 3 weeks of frustrating struggle, Wu and her Columbia students finally succeeded in making a crystal of about 1cm size.

**“Beautiful like a
diamond.”**

“The day when I brought that crystal to Washington, I was the happiest and proudest person in the world.”

The branching ratio of the two modes of decay of Fm^{253} , i.e., $E.C./\alpha$, was found to be about 8.5—which gives $\sim 89.5\%$ decay by electron capture and $\sim 10.5\%$ by alpha emission. It was not possible to measure the cross section for the $\text{Cf}^{252}(\alpha,3n)\text{Fm}^{253}$ reaction because Fm^{253} could also be produced from other californium isotopes in the target.

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To detect beta particles, a thin anthracene crystal $\frac{3}{8}$ in. in diameter $\times \frac{1}{8}$ in. thick is located inside the vacuum chamber about 2 cm above the Co^{60} source. The scintillations are transmitted through a glass window and a Lucite light pipe 4 feet long to a photomultiplier (6292) which is located at the top of the cryostat. The Lucite head is machined to a logarithmic spiral shape for maximum light collection. Under this condition, the Cs^{137} conversion line (624 keV) still retains a resolution of 17%. The stability of the beta counter was carefully checked for any magnetic or temperature effects and none were found. To measure the amount of polarization of Co^{60} , two additional NaI gamma scintillation counters were installed, one in the equatorial plane and one near the polar position. The observed gamma-ray anisotropy was used as a measure of polarization, and, effectively, temperature. The bulk susceptibility was also monitored but this is of secondary significance due to surface heating effects, and the gamma-ray anisotropy alone provides a reliable measure of nuclear polarization. Specimens were made by taking good single crystals of cerium magnesium nitrate and growing on the upper surface only an additional crystalline layer containing Co^{60} . One might point out here that since the allowed beta decay of Co^{60} involves a change of spin of

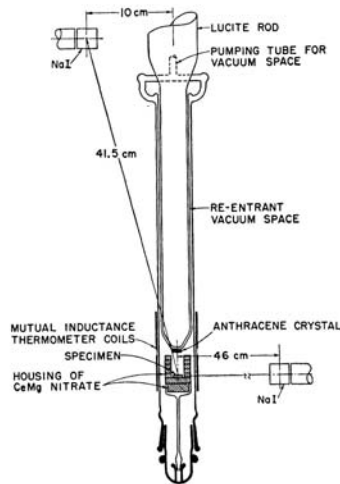
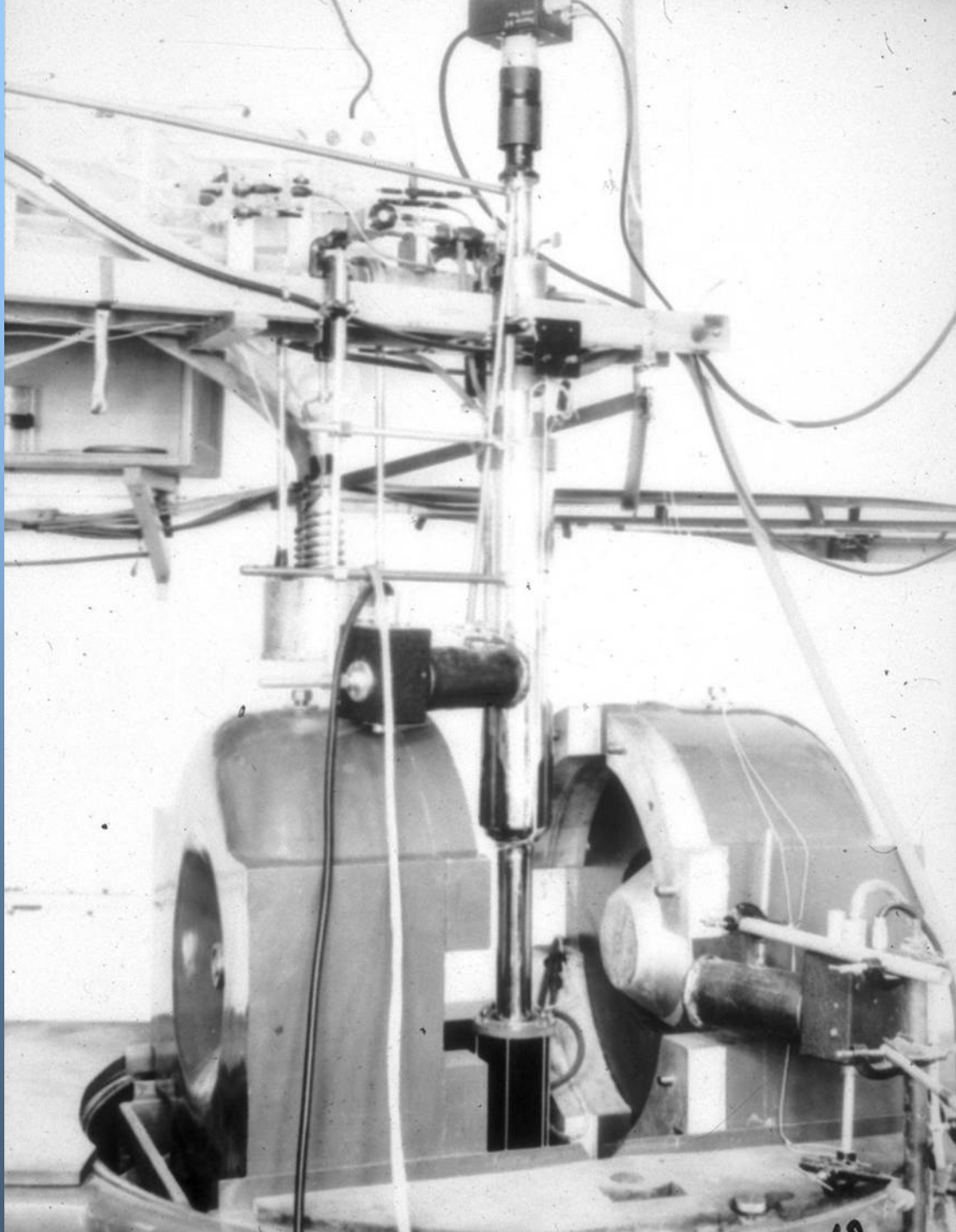


FIG. 1. Schematic drawing of the lower part of the cryostat.



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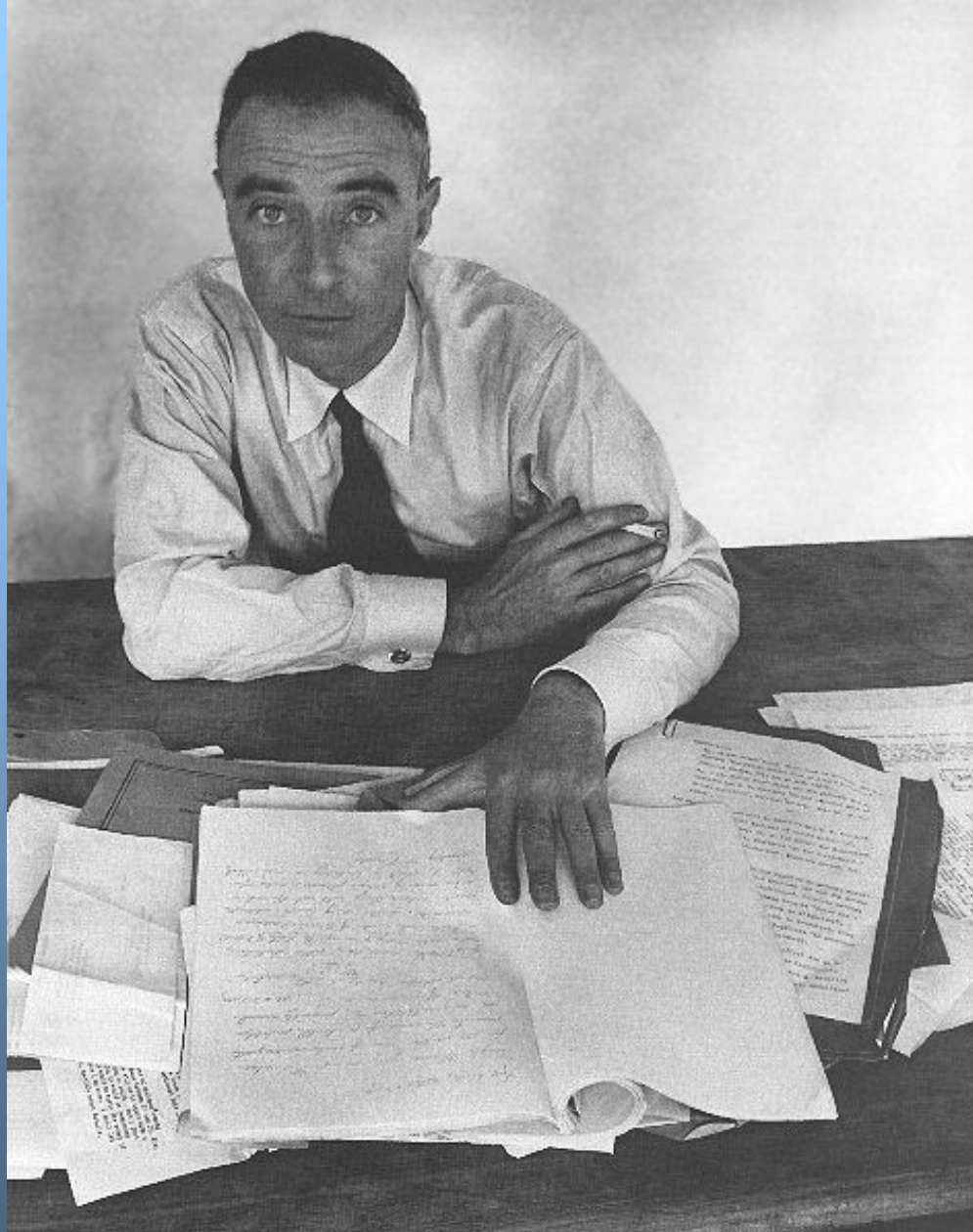
Princeton, New Jersey, 5 January 1957

Dr. Robert Oppenheimer
 Club Comanche
 Christiansted
 St. Croix
 Virgin Islands

Wu's experiment yielding large asymmetry showing G equal to G prime STOP.
 Therefore neutrino is a two component wave function STOP. It is a pure
 screw. Greetings. Frank

Answer from JRO

Walked through door greetings



J.R. Oppenheimer (1904-1967)

"All the News That's Fit to Print"

The New York Times

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VOL. CXXI, No. 34,852. WEDNESDAY, JANUARY 16, 1985. FIVE CENTS

PRESIDENT SEEKS 76 MILLION FUND TO FIGHT DROUGHT

Assures Wichita Conference U. S. Will Have Other Plans and Will Save Problem

ENDS GREAT PLAINS TOUR

Stimply Backs Long-Range Research With the Aim of Resisting Dry Cycles

Test of Eisenhower statement is printed on Page 26.

By DONALD ANNON. President Reagan ended his two-day tour of the Great Plains today with a press conference in Denver. The President also gave strong support to long-range research proposals to meet drought and to resist dry cycles he said.

"We are going to come up with additional programs to help in solving this problem," he said during his news conference, adding, "It is a problem I am sure you will solve."

Reagan his concern. General Eisenhower, expressing only one view of the drought, said he had seen similar conditions in the Southwest during his presidency.

He said that the drought was not a new phenomenon but a natural cycle that has occurred many times in the past.

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Basic Concept in Physics Is Reported Upset in Tests

Conservation of Parity Law in Nuclear Theory Challenged by Scientists at Columbia and Princeton Institute

By HAROLD M. SCHNECK JR. Experiments violating a fundamental concept of theoretical physics were reported yesterday by Columbia University scientists.

The concept, called the "principle of conservation of parity," is one of the most fundamental laws of physics.

The principle states that the laws of physics are the same whether viewed from a mirror or not.

The scientists reported that they had observed a violation of this principle in the decay of certain particles.

The discovery is significant because it challenges one of the most basic principles of physics.

The scientists said that their results could have important implications for our understanding of the universe.

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The scientists said that their results could have important implications for our understanding of the universe.

MACMILLAN GETS EISENHOWER WISH FOR ALL SUCCESS

Britain Responds With Equal Warmth to Greetings on His Appointment

By DEWY MORGENTHAU. News of the fact that President Eisenhower had warmly congratulated the Macmillan government on its appointment as Prime Minister, William Pitt "Nobby" Browne, said today.

Mr. Macmillan, in his reply, has pledged his cooperation with the President in furthering the friendly relations between the United States and Britain.

The exchange of letters, which also received similar messages of congratulation from Secretary of State Dulles and Secretary of the Treasury George M. Bush, took place today.

Mr. Macmillan said that he was pleased to receive the President's letter and that he would do his best to maintain the close friendship between the two countries.

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EGYPT TAKES OVER ASSETS OF BANKS OF BRITISH, FRENCH

Insurance Concerns Affected Also by Nassr Regime's 'Egyptianization' Decree

By OSWALD CARTWRIGHT. Under orders to become effective tomorrow, the first anniversary of the proclamation of President General Abdel Nasser's revolution, banking and insurance assets of British and French banks and insurance companies in Egypt.

All other foreign banks and insurance companies now have five years before they too will be "Egyptianized."

Under orders to become effective tomorrow, the first anniversary of the proclamation of President General Abdel Nasser's revolution, banking and insurance assets of British and French banks and insurance companies in Egypt.

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3.1% Sets 2-Year City Levy; Snowfall Imperils Traffic

Blow began blizzarding the metropolitan area early last night after a day in which the temperature had fallen to a record 21 degrees in the city.

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ELECTRICAL CITY TIGHTENED BY CODE

Council Enacts New Laws to Meet Standards of Modern Appliances on Wiring

By CHARLES G. BENNETT. The city council today passed a new code of electrical regulations to meet the standards of modern appliances on wiring.

The new code is designed to meet the standards of modern appliances on wiring.

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DULLES SEES PLAN TO AVERT A WAR

10 MIG-17 Jet Craft Reported Delivered To Syria by Soviet

Tells Senators Use of U. S. Force is Likely if Mideast Program is Rejected

By WILLIAM W. WHITE. The State Department today told the Senate that the Soviet Union has delivered 10 MIG-17 jet fighters to Syria.

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ISRAELIS BLOW UP KEY BASE IN SINAI

Troops of U. N. Find Military Installations at El Arish Wrecked After Fight

By HOMER BIGART. Israeli troops today blew up a key base in the Sinai Peninsula, the United Nations said today.

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'Eisenhower Democrat' Named As Inheritor Senator From Texas

But Control of Upper House Will Not Change—Decided

By HAROLD M. SCHNECK JR. The Senate today named a new senator from Texas, a Democrat, to succeed the late Senator Lyndon B. Johnson.

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Johnston Says Reds Slip In as Refugees

By HAROLD M. SCHNECK JR. The State Department today said that the number of refugees from North Vietnam has increased significantly.

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U. S. 'WELCOMES' EUROPE MARKET

By HAROLD M. SCHNECK JR. The State Department today said that the United States is pleased with the progress of the European market.

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Methodist Church Destroyed—Cold Frames Firemen

By HAROLD M. SCHNECK JR. A Methodist church in Syracuse was destroyed today by a fire that started in a cold frame.

PRESIDENT SEEKS 76 MILLION FUNDS TO FIGHT DROUGHT

Assures Wichita Conference U. S. Will Have Other Plans and Will Solve Problem

Stringly Backs Long-Range Research With the Aim of Resisting Dry Cycles

Text of Blankenship statement is printed on Page 13.

By DONALD HANSON Special to The New York Times. WICHITA, Kan., Jan. 13.—President Blankenship today called for a long-range research program to be conducted by the Federal Government to determine the causes of drought and to find ways to resist its effects.

Expresses His Conviction

General Blankenship, expressing deep regret over the acute drought which has been visited upon the States of Kansas, Oklahoma and Texas, today in a message to the President expressed his conviction that the drought is a problem which can be solved.

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Basic Concept in Physics Is Reported Used in Tests

Conservation of Parity Law in Nuclear Theory Challenged by Scientists at Columbia and Princeton Institutes

By HAROLD M. SCHNECKEN 21.

Experiments establishing a fundamental concept of nuclear physics were reported yesterday by Columbia University.

The concept, called the "principle of conservation of parity," was first advanced by the late physicist Paul Dirac in 1927.

The principle of parity states that the two acts of phenomena, one of which is the mirror image of the other, behave in an identical manner.

The principle might be explained in this way: Imagine that you were to look at a scene in a mirror.

The scene in the mirror would appear to be a mirror image of the scene in front of you.

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MACMILLAN GETS EISENHOWER WISH FOR ALL SUCCESS

Britain Responds With Equal Warmth to Greetings on His Appointment

By DREW MIDDLETON Special to The New York Times.

LONDON, Jan. 13.—President Eisenhower has warmly congratulated Harold Macmillan on the appointment as Prime Minister, wishing him "every success in his new post."

Macmillan, in his reply, expressed his confidence in the President and his appreciation of the warm wishes of the United States.

The exchange of letters was made public by the President's office.

Macmillan's office, Mr. Macmillan said, was deeply gratified by the expressions of sympathy from the Secretary of State.

The Secretary of State, Mr. Macmillan said, was a personal friend of his.

Macmillan said he was confident that the United States and Britain would continue to work together for the good of the world.

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DELAYING ACTION IN EGYPT: Israeli soldiers setting up a road block yesterday

Deals with Gaza during their withdrawal in the Sinai Peninsula. Tugboats were held in the Gulf of Suez after Israeli left.

By HANNOH W. BALDWIN Special to The New York Times.

WASHINGTON, Jan. 13.—About 100 Israeli soldiers were seen yesterday setting up a road block in the Sinai Peninsula.

The soldiers were seen near the town of Rafah, on the Egyptian border with the Sinai Peninsula.

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DULLES SEES PLAN AVERTING A WAR

Tells Senators Use of U. S. Force is Likely if MidEast Program is Rejected

By WILLIAM S. WHITE Special to The New York Times.

WASHINGTON, Jan. 13.—John Foster Dulles, Secretary of State, today told the Senate that the United States would use force if the Middle East program was rejected.

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ISRAELIS BLOW UP KEY BASE IN SINAI

Troops of U. N. Find Military Installations at A'Arab

By HOMER HIGGINS Special to The New York Times.

CAIRO, Jan. 13.—The Government today announced that it had blown up a key base in the Sinai Peninsula.

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Insurance Concerns Affected Also by Nasser Regime's 'Egyptianization' Decrees

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CAIRO, Jan. 13.—The Government today announced that it had taken over the assets of the banks of British and French origin.

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3.1° Sets 2-Year City Low; Snowfall Imperils Traffic

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The weather bureau said the snow might be as heavy as three to five inches before it stopped falling.

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FIRE IN SYRACUSE RUINS 4 BUILDINGS

Methodist Church Destroyed—Gold Managers Forewarned

By THE NEW YORK TIMES Staff.

Syracuse, N. Y., Jan. 13.—Fire that for a time threatened the city of Syracuse today destroyed four buildings, including the Methodist church.

The fire was caused by a gas leak in the basement of the Methodist church.

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'Eisenhower Democrat' Named As Inheritor Senator Fran Texas

But Central of Upper House Will Not Change—Daniel and Shivers in Accord

By THE NEW YORK TIMES Staff.

ASTORIA, Ore., Jan. 13.—An "Eisenhower Democrat" named as the inheritor of the Senate seat of Oregon today.

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DELAING ACTION IN EGYPT: Israeli soldiers setting up a road block yesterday

Deals with Gaza during their withdrawal in the Sinai Peninsula. Tugboats were held in the Gulf of Suez after Israeli left.

By HANNOH W. BALDWIN Special to The New York Times.

WASHINGTON, Jan. 13.—About 100 Israeli soldiers were seen yesterday setting up a road block in the Sinai Peninsula.

The soldiers were seen near the town of Rafah, on the Egyptian border with the Sinai Peninsula.

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DULLES SEES PLAN AVERTING A WAR

Tells Senators Use of U. S. Force is Likely if MidEast Program is Rejected

By WILLIAM S. WHITE Special to The New York Times.

WASHINGTON, Jan. 13.—John Foster Dulles, Secretary of State, today told the Senate that the United States would use force if the Middle East program was rejected.

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ISRAELIS BLOW UP KEY BASE IN SINAI

Troops of U. N. Find Military Installations at A'Arab

By HOMER HIGGINS Special to The New York Times.

CAIRO, Jan. 13.—The Government today announced that it had blown up a key base in the Sinai Peninsula.

The base was located near the town of A'Arab, on the Egyptian border with the Sinai Peninsula.

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EGYPT TAKES OVER ASSETS OF BANKS OF BRITISH, FRENCH

Insurance Concerns Affected Also by Nasser Regime's 'Egyptianization' Decrees

By OSWALD CARTWRIGHT Special to The New York Times.

CAIRO, Jan. 13.—The Government today announced that it had taken over the assets of the banks of British and French origin.

The assets of the banks of British and French origin were taken over by the Government.

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U. S. 'WELCOMES' EUROPEAN MARKET

Says Cutting Trade Barriers Should Bolster Members

Basic Concept in Physics Is Reported Upset in Tests

Conservation of Parity Law in Nuclear Theory Challenged by Scientists at Columbia and Princeton Institute

By HAROLD M. SCHMECK Jr.

Experiments shattering a fundamental concept of nuclear physics were reported yesterday by Columbia University.

The concept, called the "principle of conservation of parity,"

*The text of Columbia report
will be found on Page 24.*

has been accepted for thirty years. It must now be discarded, according to the Columbia scientists.

The principle of parity states that two sets of phenomena, one of which is an exact mirror of the other, behave in an identical fashion except for the mirror image effect.

The principle might be explained this way:

Assume that one motion picture camera is photographing a given set of actions and that another camera simultaneously

is photographing the same set of actions as reflected in a mirror.

If the two films are later screened, a viewer would have no way, according to the principle of parity, of telling which of the two was the mirror image. The recently completed experiments indicate that there is a way of determining which of the two images is the mirror image.

In communicating with people in an intelligent civilization on another world, the Columbia report explained, it would be impossible, with the principle of parity in effect, to tell whether or not they and we meant the same thing by right-handed or left-handed. This could be true and still the basic physical laws in both worlds would behave ex-

Continued on Page 24, Column 3

**The dam has cracked.
Physicists rushed to test
parity conservation in
various weak
interactions.**

**Over the next 5
years, hundreds of
such experiments
were performed,**

**Confirming the fact that
indeed parity
nonconservation is a
general characteristic of
all weak interactions.**

VI

Later Developments

**Wu's experiment
opened the door to
many avenues of
research in subsequent
years:**

**1. Elevating symmetry
to a central concept in
formulating
fundamental theories.**

2. Detailed understanding of “discrete symmetries”:

P (Parity)

C (Charge conjugation)

T (Time reversal),

including CP non-conservation which won the 1980 Nobel Prize.

3. Understanding of the properties of the elusive particle: the neutrino, leading to 3 Nobel Prizes:

1988 “2 neutrinos”

1995 Another neutrino

2002 Neutrino oscillation

**But Wu never received
the Nobel Prize which
she richly deserved.**

“This trio of Chinese physicists shows what China’s future contribution to physics could be if that great country overcomes the period of revolutionary convulsions and

resumes its historic role as one of the leaders of civilization, as witnessed by the early European travelers, to their astonishment.”