

## RENEW BATTLE ON ORIGIN OF COSMIC RAYS

Two U. S. Winners of Nobel Prize Farther Apart in Views.

BY DAVID DIETZ

Science Editor

WASHINGTON, May 1.—The battle over the nature of cosmic rays flared up with renewed vigor at a recent session of the National Academy of Sciences. It was apparent to the assembled scientists that America's two winners of the Nobel prize in physics, Dr. Robert A. Millikan and Dr. Arthur H. Compton, are farther apart in their views upon the subject than ever.

Last December at the Atlantic City meeting of the American Association for the Advancement of Science, Dr. Millikan and Dr. Compton took part in a symposium which took on the aspect of a debate between the two scientific titans.

Dr. Millikan maintained that the cosmic rays were tiny bits of energy known as photons, like X-rays only thousands of times shorter. Dr. Compton took the stand that the rays consisted of particles of matter like electrons.

### Tells of Experiments

Today, Dr. Millikan and several of his associates detailed experiments which they had performed during the last three months. All of them, Dr. Millikan made it clear, strengthened his views that the cosmic rays were photons.

Dr. Compton, the tall, youthful, good-looking professor of physics at the University of Chicago, told the academy that at least 10 per cent of the cosmic rays consisted of particles with positive electric charges.

He told of experiments in which special devices were used to detect the directions from which the cosmic rays came.

More rays were detected from the west than from the east. The influence of the earth's magnetic field is such, he said, that positive particles would come in greater numbers from the west than the east.

### Marshals Flight Evidence

In an interview today, he told the writer that it was possible that these positive particles might turn out to be the newly discovered positive electron or positron whose existence was discovered by Dr. Carl D. Anderson of Dr. Millikan's laboratory in California during cosmic ray studies.

Dr. Compton said that it was also possible that the positive particles might be the nuclei of atoms, perhaps of helium atoms.

Dr. Millikan, the distinguished, forceful, gray-haired chairman of the executive committee of the California Institute of Technology, marshaled evidence collected by balloon flights, airplane flights and laboratory experiments to prove his

### Uses New Instrument

He told of experiments in which new types of recording electrosopes were carried aloft to heights of more than five miles by airplane and others in which similar devices were attached to balloons and sent up to heights estimated to be at least twenty miles.

The records thus obtained, Dr. Millikan said, convince him that the energy of the cosmic rays is about equal to the energy of the starlight in our galaxy.

Dr. Millikan said that he was convinced that the cosmic rays were photons which could be divided into three bands, or at the most four or five, according to the amounts of energy which they possessed.

## Great Trip Is Arranged for Mib Champion

Times Marble Tournament Winner to Get Chicago World Fair Tour.

Here you are, Indianapolis mib shooters!

How would you like to be in this young feller's shoes, and be carried around on the shoulders of an admiring throng like that pictured here?

Harley Corum of Louisville won the crown in the 1932 national marble championship, and was he happy? Boy, oh boy!

When the last shot was made, the boy from old Kentucky just couldn't get away. Hundreds of youngsters piled into Ringier Stadium and took him for a ride.

Somewhere in Indianapolis is a boy or girl who may not get the thrill of being national marble champion this year, but at least will get the thrill of playing in the western finals at Chicago's Century of Progress.

That boy or girl is the one who will win the marble championship now being conducted by The Times.

And don't forget, the entire week at Chicago won't cost a cent. The Times champ will be the guest for an entire week of this newspaper.

Get in the local tournament, mib shooters, and let's show the rest of the country a few things about the good old game of Ringer as it should be played! Start practicing now for the first eliminations, early this month.

### \$150 in Brass Is Stolen

Junk thieves obtained a quantity of brass valued at approximately \$150 Sunday by stripping an Indiana Electric Railroad Company engine stored at the freight yards at Kentucky avenue and West street.

E. J. Britz sold a Chevrolet sedan to a Times ad within four hours after the ad first appeared.

## THIS CURIOUS WORLD



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Experiments have been made with soap taken from various places, such as hotels, machine shops, kitchens, public baths, laundry stations, etc., and in no instance was one single living or-

ganism found. The process of manufacture and the ingredients used in soap keep it free of bacteria.

NEXT: Are all deer herbivorous.

## The Babies Win All Honors in the New Photoplays

The Youngsters in the Pictures of Mary Pickford and Maurice Chevalier Are Too Cute for Words.

BY WALTER D. HICKMAN

HERE is going to be a lot of baby talk going round town this week and Baby Leroy in the Maurice Chevalier opus is one of the causes.

This 8 months old baby is about the cutest laughing and gurgling trick the screen has ever reflected.

Believe it or not, this child of such tender years can act. And this baby is one of the reasons that Chevalier's "A Bedtime Story" is such a delight. And that is no reflection on Chevalier because he has at least two song numbers that are real Chevalier hits. For instance, take the way the French star has worked out the song in the park as he wheels Baby Leroy through the park. This number is done in the best tantalizing style that Chevalier possesses.

Then his love song is a nifty. But when it is all said and done, it is Baby Leroy that you are going to remember and talk about. This youngster is about the cutest thing I have ever seen in many a moon. And Chevalier is a wonderful "father." Of course, in the story, the French star is not the daddy because the baby is left in his splendid auto instead of on his doorstep.

Twelve-year-old Chevalier is cast as the nurse who keeps the baby smiling and causes the heart of Chevalier to beat faster and faster. Nice old moonlight hooey but grand hooey at that. Miss Twelvetrees gives a smart performance.

And for comedy relief, Edward Everett Horton does a grand job as Chevalier's valet. Here is comedy work that ranks with the best.

As far as I am concerned, "A Bedtime Story" is just to my liking. It is clean, tuneful and romantic. The entire family can go to this one and every one will have a grand time. Better put "A Bedtime Story" on your must shopping list this week. Now at the Circle.

MARY PICKFORD STAGES A COMEBACK

Mary Pickford is a movie institution and I do not like to see institutions wrecked or grow old.

Am pleased to pass the word on to you that Mary Pickford stages a smart and a definite comeback in "Secrets." This movie starts out as romance—a poor bank clerk in the 80s falls in love with a ritz New England girl of fine but haughty family. Then the two elope and go west. The picture then reminds one of "The Covered Wagon." Then all at once the story becomes melodramatic with our Mary battling side by side with her husband a bunch of cattle thieves. Then the story resembles "The Silver Dollar" and for an ending the tempo is tendar romance with Miss Pickford and Leslie Howard appearing as an old couple who desire to escape from their four grownup children.

In the early scenes of the picture, Miss Pickford is the old Mary. I mean by that she is the cute little romp she was in the old silent days. In these scenes, she is as lovely as she was in the early movie days.

Her comeback is definite in this picture. All she needs is the right sort of a vehicle and "Secrets" fills the bill. She has had some terrible flops in past pictures.

The acting of Stuart Erwin as the enterprising reporter who finally solves the crime, is good. And the character just the right amount of comedy to keep it from being routine. And you will laugh at him as well as with him.

Frances Dee, as the doctor's daughter, who helps Erwin with his sleuthing, makes a good heroine, and Wynne Gibson is sufficient as the faithless and socially ambitious step-mother.

Don't expect anything gigantic when you see this picture. Its purely entertainment, and although the situations of the story may lack some plausibility and possibility, it's good theater.

Ed Resner's musicians play admirably the overture "Orpheus," and made me wish that they would do more of this type.

Now at the Indiana. (By the Observer.)

## THE INDIANAPOLIS TIMES

### GANDHI PLANS 21-DAY FAST; START MAY 8

Facing Risk of Life to Center Attention on 'Untouchables.'

BY FRANCIS LOW

United Press Staff Correspondent

BOMBAY, India, May 1.—Mahatma M. K. Gandhi, emaciated, bald little political and spiritual leader of millions in India, has announced that on May 8 he intends to start an "unconditional fast" of twenty-one days.

The Mahatma, who has spent most of his recent life in Yeravda jail, at Poona, near Bombay, declared that he had struggled against the impulse to fast, but failed.

He said that he was taking this risk of his life in an effort to center attention among his fellow men in India on the abject condition of the "untouchables" whom he hopes to free from the burdens of caste system.

The authorities hoped he would be dissuaded from fasting for three weeks, fearing a religious war would break out in the event of his death.

Medical experts held little hope that the tiny, shrunken leader could survive the rigorous ordeal.

Gandhi, however, remained firm, although admitting the dangers of death.

"Let there be no misunderstanding—I have no desire to die," he said. "I want to live for the cause."

He said he would pray for purification of India and its peoples.

"Shocking cases of impurity have come to my notice," Gandhi said. "If God has more service to take from this body, he will hold it together, despite the deprivation of early food. God will send me spir-

itual food. I ask my friends in India and the world to pray for me."

"The 'bar sinister' they put upon 60,000,000 human beings, however," he said, referring to the untouchables, "is a standing demonstration against that claim. Men like myself feel that untouchability is no integral part of Hinduism. It is an excrescence."

Gandhi, over 60, weighs less than 100 pounds, is suffering from an affliction as yet undiagnosed fully but believed to be a form of rheumatism at times most painful.

He narrowly escaped dying once before when he fasted for a similar cause at the Poona prison.

By United Press

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### AKRON TRAGEDY PROBABLY WILL STAY MYSTERY

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Watson to Be Speaker

Ex-Senator James E. Watson will speak Tuesday night at the Charter presentation banquet of the Indianapolis Junior Chamber of Commerce at the Lincoln. Howard S. Davidson, Chicago, national junior chamber vice-president, also will speak.

### You won't believe it but it's on the level

YOUNG'VE been cussing razor blades

William Waters, 3, of 6410 Evanson avenue, incurred a crushed left thumb Sunday when the door of an automobile was slammed at Eighteenth street and College avenue.

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