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COSMIC RAYS HIT EARTH FROM ALL ANGLES—PICCARD

Noted Stratosphere Explorer Gives New Version of Invisible Rays—Calls Them Electrical Boomerangs

By W. F. O. Swann
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SWARTHMORE, Pa.—(AP)—Imagine the air filled with invisibly small electrical boomerangs cast by giants capable of making a 1000 mile loop and you have a mental picture of what is happening among the cosmic rays observed by Prof. Auguste Piccard 10 miles aloft.

He concluded that cosmic rays at high altitudes come equally from all directions, upward as well as downward. This is at variance with previous observations at low altitudes, which reconcluded the rays falling almost perpendicularly, like rain.

If the rays are electrons, as Dr. Arthur H. Compton's world-wide observations indicate, their rushing about in all directions as observed by Piccard is explainable.

All about the earth there is a great magnetic field, which far outstrips the upper limits of the atmosphere. Electrons travelling in a magnetic field would describe circular or curved paths.

The sizes of the cosmic ray circular paths would depend on the energies of the rays.

Thus the most energetic cosmic rays discovered by Professors Millikan and Anderson—electrons which have acquired their energy by a fall thru one thousand million volts—would travel in circles having diameters of about 125 miles. Electrons of energy corresponding to 10,000,000 volts would travel in circles of a diameter of a little more than a mile.

Between this energy and the highest energies obtainable we have a series of circular paths of increasing radii.

There is reason to believe that there are both primary and secondary cosmic rays. The primary rays come from a source outside of earth. The energy these must have to enable them to reach our globe without being turned back into space is such that over distances of a few miles they would be bent but little from straight paths.

The secondary rays are electrons ejected from atoms of the atmosphere when a primary ray collides directly with the nucleus of an atom. Many of these secondary rays are of considerably less energies. They can complete their circular paths in a few miles.

We have reason to believe that the secondary rays are ejected initially downwards. If they are of such a nature that they can turn before striking the earth, they will succeed in travelling upwards in a portion of their path.

Rays From All Directions

Those rays which are emitted at high altitudes will be able so to turn without striking the earth, so that at those altitudes we may expect to find the secondary rays coming from all directions, upward in the case of those which have completed a semi-circular path and horizontally in those which have completed only one quarter of their path.

Electrons penetrating in energy to the majority of electronic rays emitted by radio-active substances would travel in circles of diameters of about 600 meters, but would not be sufficiently penetrating to enter the apparatus used by Professor Piccard.

MUSEUMS LOOTED IN PRE-WAR DAYS ISTANBUL LEARNS

ISTANBUL—(AP)—Theft of several million dollars' worth of imperial jewels and Moslem prayer-rugs from Istanbul museums has been rediscovered.

On the eve of the World War, 119 relics, including diamond aligrettes worn in sultanic turbans and silk prayer-rugs of enormous value, were missing from the national museums.

Investigations were dropped during the war and are only now being taken up again—but it is found that the papers relating to the initial inquiry also have been stolen.

The police believe the are on the track of one of the prayer-rugs which is supposed to have been sold in the United States for \$65,000.

The old thefts were "rediscovered" because of the recent loss of another rug worth \$250,000, supposedly sent from Konia to the Istanbul Religious museum, but which never arrived.

Pointers for Poll Takers.

CLEVELAND, Ohio.—(AP)—A lot of things can be learned about human psychology in the conducting of a straw vote, poll takers of a Cleveland newspaper's election straw vote discovered. One poll taker said: "Women hate to stop in the street to vote; men seem to enjoy it; women like to vote at their homes; the men dislike it."

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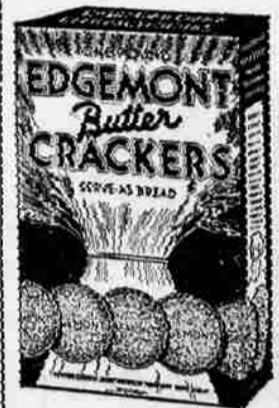
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