Radar to Hunt Treasure in a Pyramid

By WALTER SULLIVAN Special to The New York Times

WASHINGTON, April 22 ure-laden burial vault within or under the gigantic Khefren pyramid is being undertaken by the Stanford Research Insti-pyramid. tute, using a rock-penetrating radar.

cosmic rays penetrating its mas been the burial chamber, the images to be measured directly. sive limestone blocks from all fact that a treasure-laden burial. The angular width of several parts of the sky. Had there been vault was found within the a cavity, it was assumed, it heart of the nearby Cheops pyrwould have shown up as a mid has led to speculation that one might also be within of the rays had been absorbed the Khefren pyramid.

The angular width of several stars was obtained 40 years ago by bringing together separate beams of light from each star so that the light waves could interfere with one another than those arriving from other stars. than those arriving from other directions.

ez. Nobel laureate in physics from the University of California at Berkeley, who conducted the search in collaboration with Egyptian scientists, said that continued efforts to probe all corners of the pyramid had revealed no such chamber.

The Khefren pyramid is one of the three famous pyramids

continue under the same arrangement with the Egyptian ciety is holding its spring meet-

Dr. Alvarez said. Observations Park Hotel. At the same time, should begin within a few the Optical Society of America A new effort to locate a treas- weeks, using short-wave radio is meeting at the nearby Shoreemissions, a few meters in ham hotel length, that should penetrate a few hundred feet below the Maurice Françon of the In-

upward from the chamber un-powerful new way of measur-The effort follows an eight der the pyramid from which ing the angular width of stars. year attempt to probe the monument through observations of were made. While this may have distant for the width of their

7,500 Hundred Years

All three of the great pyr-terferometry. However, Dr. Luis W. Alvar- amids at Giza were built the Cheops pyramid, which is length. the largest.

the gold would produce an of hopes for a similar find in powerful operating telescope, "enormous signal" in the Stanthe Khefren pyramid, using on Mount Palomar, A. Labeyford radar. The latter, he added, devices more sophisticated than rie has obtained angular widths will also be able to look be-battering rams. In 1969 Dr. Al for about 100 stars, down to battering rams. neath the pyramid where the varez said that he had found magnitude 9, and to widths of cosmic ray experiment was blind.

No evidence of a chamber in one-tenth of a second of arc. blind.

A check of astronomers today The Stanford Research In-Today he reported negative re-revealed a widespread hope that

authorities, which made possi-ling here this week with most

ble the cosmic ray observations, of its sessions at the Sheraton

At the latter session Dr. stitute of Optics at the Uni-They will also be directed versity of Paris told of a

other, a process known as in-

This process was applicable some 45 centuries ago. Accord- only for the nearest, brightest ing to Dr Alvarez, the Caliph stars. In the new method, the Mamoon in the 10th century, star is photographed rapidly seeking treasure, ordered a tunnel dug through the heart of passage of only one wave

The result is a cluster of This would have missed the spots, representing various povault in its core, Dr. Alvarez sitions of the stellar image as said, had those working inside it danced because of atmossaid, had those working inside it danced because of atmostouthwest of Cairo.

Gold and Cosmic Rays

It is conceivable, Dr. Alvarez said, that a chamber exists so crammed with gold that it absorbs as many cosmic rays as the solid limestone. If so, he told a press briefing this noon.

stitute of Palo Alto, Calif., will sults for the rest of its volume. this would eventually become