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 <u>Stanford Research</u> Insti-pyramid. tute, using a rock-penetrating radar.

year attempt to probe the mon-ument through observations of were made. While this may have distant for the width of their 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 sive inmestone blocks from all lact that a treasure-laden burial parts of the sky. Had there been vault was found within the a cavity, it was assumed, it heart of the nearby Cheops pyr-would have shown up as a "bright spot" in which fewer of the rays had been absorbed that the the the the pyramid. The angular width of several stars was obtained 40 years ago by bringing together sepa-rate beams of light from each star so that the light waves could interfere with one anthan 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

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

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

7,500 Hundred Years

All three of the great pyr- terferometry. However, Dr. Luis W. Alvar- amids at Giza were built 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 tun-through a filter that permits nel dug through the heart of passage of only one wave the Cheops pyramid, which is length. the largest.

told a press briefing this noon, turies ago, that lay at the basis Using the world's most the gold would produce an of hopes for a similar find in powerful operating telescope, "enormous signal" in the Stan-the Khefren pyramid, using on Mount Palomar, A. Labey-ford 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 nearth the pyramid where the varies that had for about 100 stars, down to neath the pyramid where the varez said that he had found magnitude 9, and to widths of cosmic ray experiment was no evidence of a chamber in one-tenth of a second of arc. blind. blind. The Stanford Research In-Today he reported negative re-revealed a widespread hope that stitute of Palo Alto, Calif., will sults for the rest of its volume. this would eventually become continue under the same ar-rangement with the Egyptian ciety is holding its spring meet-

At the latter session Dr. few hundred feet below the Maurice Françon of the Institute of Optics at the Uni-They will also be directed versity of Paris told of a 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. other, a process known as in-

This process was applicable

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 atmosat Giza, about three miles southwest of Cairo. Gold and Cosmic Rays It is conceivable, Dr. Alvarez said, that a chamber exists so crammed with gold that it ab-sorbs as many cosmic rays as the source label and cosmic rays as the pyramid with a battering pheric turbulence. The film is ram, not heard a thundering nearby. They guessed that it ing down a sloping shaft. A tern known as a Fourier trans-form. The nature of this pat-tern indicates the width of the light source. The source indicates the width of the light source.