# £336,000 RADIO TELESCOPE 

To Weigh 1,270 Tons

## By our own Reporter

Work should begin this summer on silding at the Jodrell Bank, Cheshire sperimental station of Manchester Iniversity a new steerable radio elescope to supersede the present fixed telescope there which is already the largest of its kind in the world and which in 1950 first picked up radio waves from the Andromeda nebula, 750,000 light years away.
The immediate object of study with the new telescope will be to continue the work on the galactic and extragalactic radio emissions which has been egun by the application of radio echniques to astronomy since the war, ith particular reference to the number
nd nature of the dark radio stars; it
iil also be used to plot the intensity the radiation, especially from the giors of the Milky Way which are bscured to vision by dust-clouds in terstellar space New information' ay be oblained about the sun, meteors, te moon, and some of the planets. r A. C. B. Lovell, Professor of Radiotronomy at Manchester University ys that without a doubt the instruent will do for radio-a lo large
ole fescopes in America have
olal astronomy. Byilding the telescope will probably about £336,000, half of which will oborne by the Nuffield Foundation and Gif by the Government vote to the Separtment of Scientific and Industrial lesearch. It is hoped to complete the fameter of the parabaloid aerial will e 250 feet, compared with the present ind its bowl will be about 60 feet deep nstead of the 25 feet of the present one.

## ATTLESHIPS' SHARE

The telescope will be mounted on a latform 310 feet in diameter; the zelgh, to the top of the horizontal axis,
vill be 185 feet and when the beam from the aerial is horizontal the total heigh will be 300 feet. The telescope will weigh 1,270 tons. The main elevating racks at each end of the horizontal axis Will come from the, battleships Revenge
Being steerable, the new instrumen Will be able to follow the radio stars and waiting to intercept them, and will be able to photograph them uninterruptedly with a vastly greater sensitivity than has so far been possible. It will also jve a greater resolution than presen much shorter wave-length.
With these factors, the telescope will byin astrophysicists nearer to the solutwon of the primary problem of whether frere are not in fact as many radio stars 5 there are visible ones, while in day-
me study, for example, it will-advance the knowledge recently gained from its predecessor of the orbits of the great streams of meteors discovered on the sunlit hemisphere of the earth.
[Photograph on page 6]

## SETBACK TO EUROPEAN DEFENCE COMMUNITY?

Dr Adenauer's Condition for Signing

## TREATY NOT BINDING ON A REUNITED GERMANY


#### Abstract

From our own Correspondents

Paris, April 25. The word "surprise" is certainly an understatement for the feelings at the French Foreign Ministry after a statement by Dr Adenauer that his signature to a treaty establishing a European Defence Community would not be binding after the reunion of Germany. It is claimed here that this statement is in sharp contradiction with the assurances given by the Federal Chancellor in conversations with Paris, London, and Washington. It is understood that the Chancellor is often faced with a difficult internal position; this is presumed to have been the explanation in the past of a some- reunion of Germany, Dr Schumacher suggests various means of guaranteeing free all-German elections under international control. Agreement between the German Government and Opposition has not, however, managed to protract itself for a full twenty-four hours. Social Democratic headquarters announced this evening that there would be no meeting between the Opposition and Dr Adenauer on the subject of all-German elections, four-Power talks, or anything else. They accuse Dr Adenaver of else. They accuse Dr Aden having broken faith with them. This accusation is based on the fact This accusation is based on the fact that Dr Adenauer allowed the Opposition to study the latest letter sent to him by the French Foreign Minister M. Schuman, on the Saar, but asked that its contents should be kept secret




An artist's drawing of the steerable radio telescope which will be installed at the M-mech.........orty Exprimental
Station at Jodrell Bank, Cheshire. A description of it apr on page 5

## FOR MORE TIME

## the Stumbling-Block ishmir

lhould the situation be favourable would be ready at the end of the period trons with the United Nations into consultative with the United Nations representa-
tive to consider a further forces on the Indian side." reduction of
further renser Dr Grabam said.
that the question of India considered for demilitarisation and definite period plebiscite administrator a date for a (Fleet Admiral anistrator to take office designated) could be Nimitz has been difficulty once the be settled without of demilitarisation and the number on the scope forces to remain had been number of the Pakistan Government's view. Of he said.
"Pakistan agrees that the demilitaris. Nations pleted representative should be comPakistan insists later than July 15. 1952 program insists that the demilitarisation forces in should embrace all the armed forces in Jammu and Kashmir without Azad (Free) Kamely the Pakistan Army, Azad (Free) Kashmir forces, the Army,
Army, state army, and the state militia Period of agrees that at the end of the period of demilitarisation the end of the remain on each side of the cease-fire lind the lowest possible number of fire line forces in, proportion to the of armed armer farrac whinh to the number of

