Exploring the frontiers of astronomy

Kavalur, Jan. 19: The wonderful star-laden skies, source of eternal star-laden skies, source of eternal passion for astronomers, will be further opened up with the commissioning of the giant 2.3-metre Vainu Bappu telescope, Asia's largest, at the Indian Institute of Astrophysics (IIA) observatory in the wooded hills of Kavalur village in North Arcot district of Tamil Nadu.

The glumner of stars, scattered at incredible distances in the frontierless cosmos, becomes brighter and

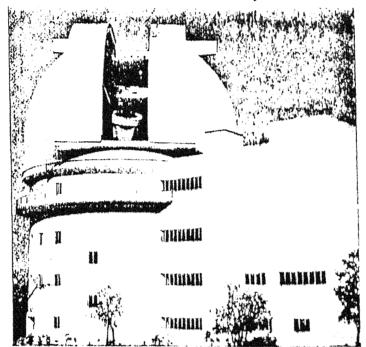
less cosmos, becomes brighter and clearer with this powerful telescope which can vividly resolve the image of a 25 paise coin kept 40 km away. The commissioning of the Rs.

6.5-crore telescope, named after its conceiver, the late Dr. K. V. Bappu, coincides with the completion of two centuries of astronomical observation in the country.

In scientific terms, the telescope aids research in areas like stellar ands research in areas like stellar chromospheres, the spiral structure of galaxy and the morphological and chemical composition of other galaxies. It enables the Indian astronomers to compete with the best observational facilities elsewhere in the world. the world.

It had taken more than a decade It had taken more than a decade for designing and fabrication of the telescope and to Dr. Vainu Bappu it was a life-time project, IIA Director J. C. Bhattacharya told a visiting team of newsmen from Bangalore.

The felescope's equitorially mounted horse-shoe-yoke structure was ideally suited for low altitudes and permitted easy observation near the celestial pole. The control system had been designed to an accura-



A view of the 2.3-metre telescope the top part of which is visible through the slit in the rotatable dome in the building at Kavalur.

cy of one are second, he said

Below the massive rotating dome of the telescope, is located a maze of computer systems for data analysis and image processing facilities, which would be finally linked to the

Along with the towering 2.3-metre telescope, there are seven

others of varying diametres dotting the sandalwood stretches of the observatory, enabling the astronomers a constant communion with the

The one-metre telescope at Kavafur had been used in making three major discoveries in the solar sys-tent — the discovery of atmosphere around Jupiter's satellite Ganymede, spotting of outer rings of Saturn in March 24 and 25, 1984, the first indication of which was signalled from spaceship voyager. The observatory had also recorded a good deal of data of the seventh lunar occultation' which would reveal new instable, into composition veal new insights into composition of stars, Prof. Bhattacharya said... Programmes for this year at the

observatory included the monitoring of Comet Halley's trail passing through several stars. Prof. Bhattacharya said the HA was discussing with Indian Space Research Organisation sending an astronomical payload on one of its future mis-

Despite the overbearing presence of gunt telescopes, 6-inch tele-scope, donated by the American Association of Variable Observers (AAVSO) to an Indian amateur in 1920, still attracts the young 'star gazers'.

The tiny telescope is thrown open oil young amateurs in schools and colleges to help them explore the sky. The observatory staff would help them in handling the instru-

ment.
The telescope had been given to Mr. Radha Gobind Chandra, a clerk in the Collector's office in Jessore now in Pakistan, Prof. Bhat-

tacharya kaid.
Mr. Chandra in his old age wrote to the Association to take back the to the Association to take dock the telescope as he could not continue his observations. But the Association gave it to yet another amateur in Hyderatisid, Vainu Buppu, who bloomed into a pioneer of Indian astronomy later.