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国台学术报告 NAOC COLLOQUIUM

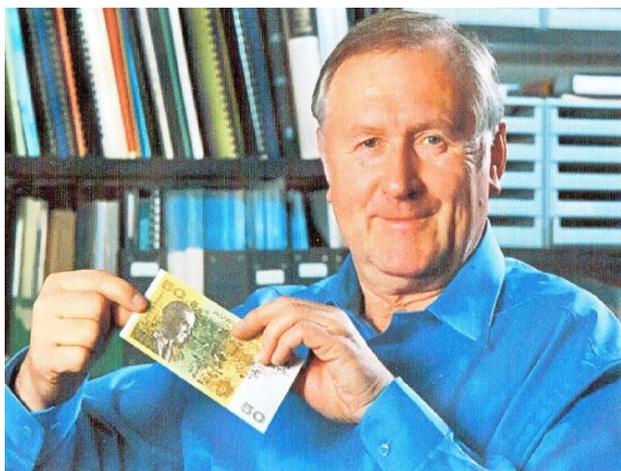
2015 年 第 13 次 / No. 13 2015

Time: Wednesday 2:30 PM, Apr. 29 **Location: A601 NAOC**

The Development of Radio Astronomy

Dr. Richard Wielebinski

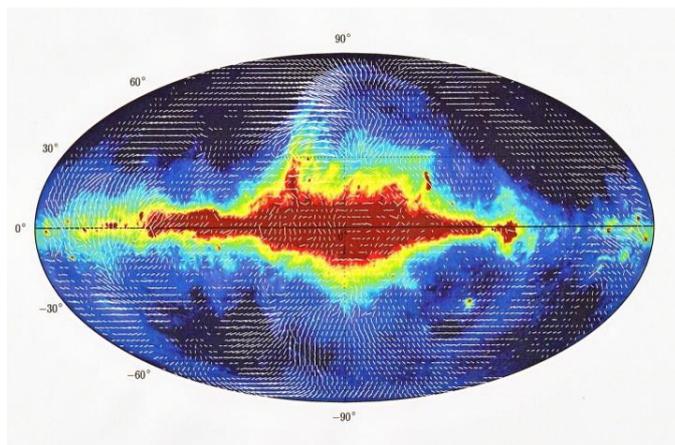
Max-Planck-Institut für Radioastronomie, Bonn



Dr. Richard Wielebinski obtained his Ph.D from Cavendish Laboratory, Trinity College, Cambridge in 1963. He was a former director of Max-Planck-Institute für Radioastronomie (MPIFR), Bonn, from 1969 to 2004; and currently is the Emeritus Director. He is an honorable professor of Bonn University, adjunct professor of history of astronomy, James Cook University, Townsville, Australia, and a guest research professor of NAOC. He is also a foreign member of Polish Academy of Sciences. His research interests have been focused on the instrumentation in radio astronomy, magnetic fields in the universe, pulsars, CO line in nearby galaxies and history of radio astronomy.

Abstract

Radio astronomy has been with us for only some 70 years, a short time when compared with the length of human (optical) astronomy observations. Nevertheless radio astronomy revolutionised our understanding of the Universe that we live in. Radio astronomers discovered quasars, pulsars, magnetic fields, the HI line, molecular lines, as well as the cosmic microwave background – a signature of cosmic evolution. Using pulsars radio astronomers confirmed the theory of relativity in detail and are on the way to detect gravitational waves. The observations in radio spectrum showed us the existence of dark matter and hence of dark energy. In my talk I will sketch all these developments and try to extrapolate to what radio astronomy can provide in the future. This last part of the talk I will base on the present and planned instrumental projects of radio astronomy like ALMA, LOFAR and the SKA.



All are welcome! Tea, coffee, biscuits will be served at 2:15 PM.