

演講題目

Radio Astronomy Technology in a Nutshell

Abstract:

Radio astronomers have exploited microwave engineering to discover many astronomical objects, such as interstellar molecular clouds, proto-stars, quasars, cosmic background. Once upon a time, astronomers generally observed the sky at a few GHz frequencies. With post-war technology, modern physics and astronomy both flourished in a great scale. To date astronomers are keen to go after Tera Hz objects with the most advanced and expensive technologies in the world. Super-conducting sensors, semiconductor MMICs, large volume ASICs, ultra high speed data converters, cryogenics, beam forming technology, space and aviation engineering, noise reduction algorithm, and much more are in the list. Radio astronomy technology has become one of the greatest challenging complex engineering and yet non-profitable necessity.

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