Abstracts

Rutile Traveling-Wave Maser System for the Onsala 84-Foot Radio Telescope (Correspondence)

O.E.H. Rydbeck and E. Kollberg. "Rutile Traveling-Wave Maser System for the Onsala 84-Foot Radio Telescope (Correspondence)." 1968 Transactions on Microwave Theory and Techniques 16.9 (Sep. 1968 [T-MTT] (Special Issue on Noise)): 799-803.

This correspondence describes the practical application of a series of extremely compact high-gain traveling-wave masers for the frequency range 1300 to 3400 MHz, using chromium-doped rutile as active material. These masers, which are electronically tunable through bands of 200 MHz, or more, are characterized both by flexibility and mechanical rigidity. They are especially built for galactic and extragalactic microwave emission studies, for example anomalous 18-cm OH radiation, with the 84-foot equatorially mounted radio telescope at the Onsala Space Research Observatory, Sweden.

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