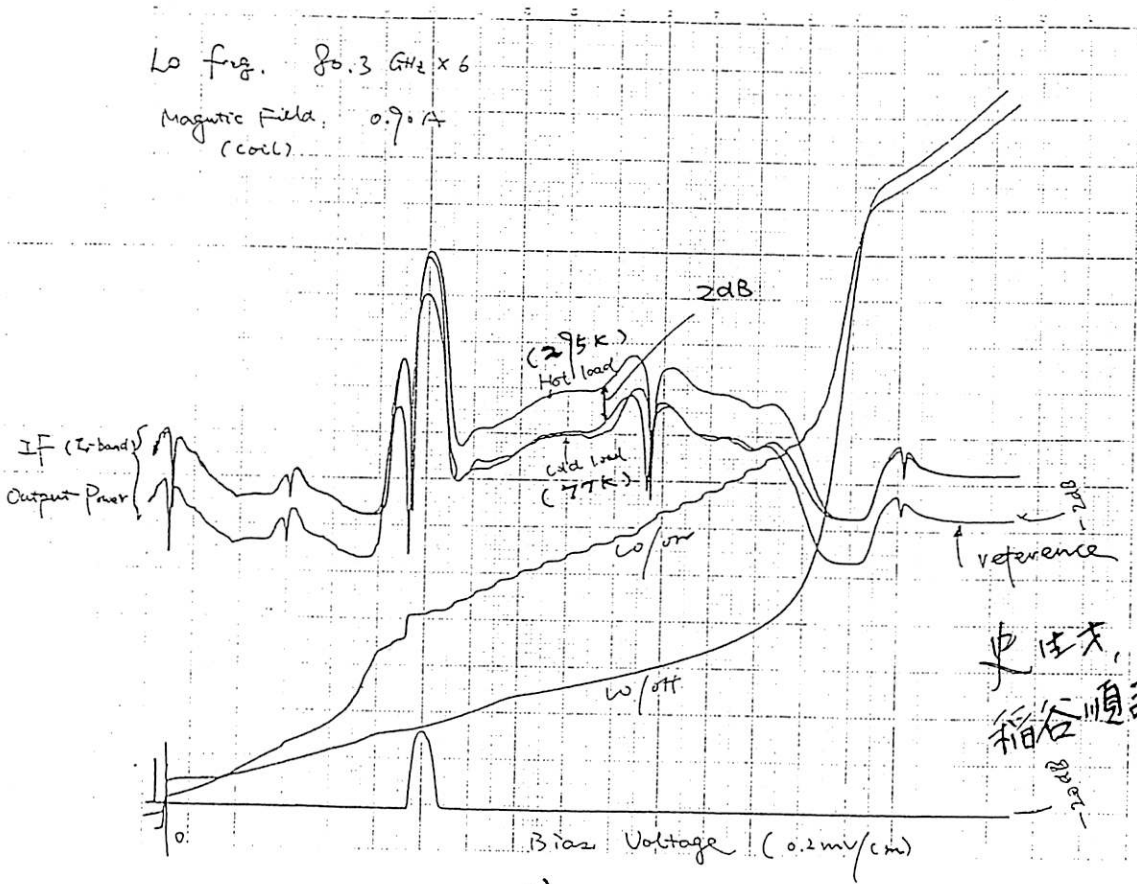


First SIS Receiver in Japan

Submillimeter

$$T_{Rx, DSB} \approx 300 K$$

A 500-GHz SIS receiver incorporating a new design of the mixer mount and PCTJ (parallel-connected twin junctions) has been tested at Nobeyama on Aug. 24. The first experiment has exhibited a Y-factor of 2 dB, which implies a receiver noise temperature [DSB] of about 300 K.



史生大, 野口卓
 稲谷順司, 深澤周作
 関本裕太郎

Fig. 1 実験結果

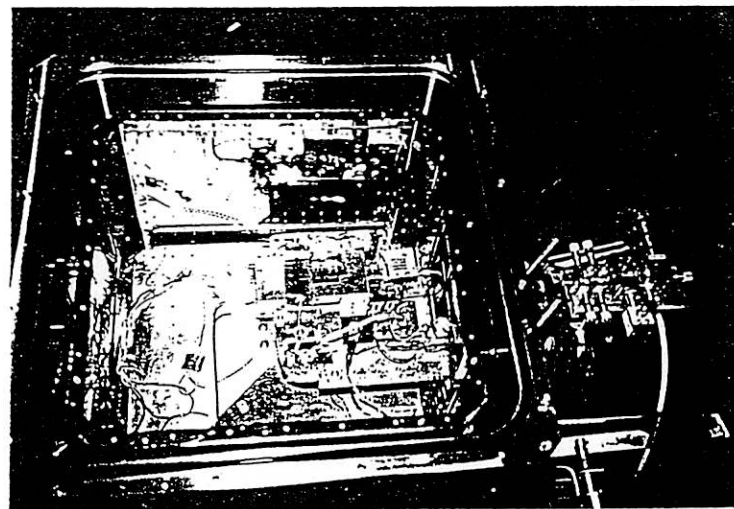


Fig. 2 500-GHz SIS Rx Test Set-up