

Possible Radio Science
issue on this papers:-
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C.H. Liu + Fukao.

MST

MAP Handbook. - 0
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SCOSTEP/URSI

FOURTH WORKSHOP

ON

**TECHNICAL AND SCIENTIFIC
ASPECTS OF MST RADAR**

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Spaced antenna vs. interferometer techniques: Similarities and differences

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Spaced antennas and interferometers have been used to measure transverse velocities. Both use a set of two separate antennas and can use crosscorrelation analysis techniques, so it appears at times that the difference is only a semantic one. In fact, it has produced confusion that we would like to clarify. Both techniques have evolved since they were first put to use, by ionospheric physicist, the first, and by radio astronomers, the second. The situation is further complicated by the use of radar and spectral techniques. The main difference between the two is that an interferometer estimates second order moments of the signal, whereas the other involves higher order statistics. The differences between them both is also explained in terms of inhomogeneities in the backscattering properties which are used as tracers.