

# Session TH2B

## Low Noise Receivers

**Chairman:**

**J. Whelehan**  
AIL Systems, Incorporated

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Some exciting advances in the field of low noise receivers as well as their associated components are presented. We start with a monolithic W-band LNA/detector for a very sensitive receiver, a radiometer followed by recent advances in Q and E-band cryogenically cooled amplifiers. We then present a 4 stage C-band monolithic amplifier that uses lumped elements to reduce the overall size of the unit. Some recent results in low noise Heterojunction Bipolar Transistors for mixed mode applications. The session is then concluded with a discussion of Q and V-band MMIC chip sets using 0.1 micron millimeter-wave low noise InP HEMTs.

**10:30 a.m.-12:00 p.m., Thursday, May 18, 1995**  
**Room A2**