

# Session AA

## Receiver Components

### Chairman:

**James Whelehan**  
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Unique components have been developed for the receiver design engineer that will affect the system architectures of the future. Subharmonically pumped HEMT mixers, millimeter wave mixers with an antiparallel diode pair, and cryogenically cooled millimeter wave mixers will influence the future systems. Low noise DRO performance that is state-of-the-art is presented as well as a new design technique for FET amplifiers. Concluding the session is a GPS receiver design that uses very current technology.

**3:30 p.m.-5:00 p.m., Wednesday, June 12, 1991**  
**Ballroom C**

**AA**