Ultra-linear Modulator Designs

Anand Gopinath (PI), Jaesang Oh

Electrical & Computer Engineering, University of Minnesota

NNIN Facility utilized: Nanofabrication Center

• Phase-shift Directional Coupler Modulator (PDCM)

• Variable Directional Coupler Modulator (VDCM)

Status of Project

- Frequency response over 20 GHz
- Switching voltage 6.5 V for Design I
- Switching voltage 14V for Design
- IMD3 under Noise level