

Project: IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)

Submission Title: The Next Frontier for Circuit Designers: CMOS THz Systems

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Abstract: There has been a growing interest in mm-wave and Terahertz frequencies for communication, imaging, and sensing applications. In this talk, we will look into recent advances in CMOS implementation of various building blocks. First, we show how to implement mW-level signals up to 500GHz. Then we show different amplifiers as well as two transmitters at 260GHz and 350GHz.

Purpose: Information to IEEE 802.15 IG THz

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