

Abstract Submitted  
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**Performance characteristics of GaInP based Geiger mode APD arrays** GRACE CUMMINGS, Univ of Virginia — We present a collection of studies examining the performance of new high density Geiger-mode APD (GAPD) arrays manufactured using GaInP semiconductor technology, including an evaluation of signal and noise characteristics for new prototype devices and preliminary radiation exposure studies. This talk also reviews the physical properties related to each measurement and discusses expectations and physical factors that can affect the performance of manufactured devices.

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