

Terahertz Astronomy from Near Space and Beyond

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Abstract—With the advent of ultra-long duration ballooning and new innovative approaches to CubeSats and large space-based telescopes, the prospects are bright for a new generation of powerful terahertz observatories. To reach their full potential these observatories will push beyond the boundaries of current terahertz technology, necessitating advancements in detectors, sources, amplifiers, optics, and cryogenics. During the presentation plans and concepts for this new generation of observatories and their instrumentation will be discussed.