Millimeter, Submillimeter, and Far-Infrared Detectors and Instrumentation for Astronomy IX

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Future discoveries in the far-IR and millimeter will undoubt-edly leverage future space missions and the new technologies that enable them. The planar, metamaterial optical coupling technologies being developed and reported here may directly enable the large, compact, and robust detector arrays required for future astrophysical experiments. N. Zhu, Feedhorn development and scalability for Simons observatory and beyond, in Millimeter, Submillimeter, and Far-Infrared Detectors and Instrumentation for Astronomy IX, vol. 10708 (2018), p. 107084B. Poster Previews for Conference 9914 Millimeter, Submillimeter, and Far-Infrared Detectors and Instrumentation for Astronomy VIII Â© (2016) COPYRIGHT Society of Photo-Optical Instrumentation Engineers (SPIE). Downloading of the abstract is permitted for personal use only. Read more. Article. Instrumentation for extreme ultraviolet astronomy. January 1978. F. Paresce. Design considerations for instruments intended for EUV astronomy from space are discussed. The ability of an optical system to detect and measure the brightness of an object is examined, options available for mirror design in the EUV are summarized, and two telescope configurations selected for flight are noted.