

391. Title:Uncooled Detectors Challenges for THz/sub-THz Arrays Imaging

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Abstract:Some problems and challenges for applications of uncooled or slightly cooled detectors (not deeper than to 77&nbsp;K) for sub-THz and THz (terahertz) arrays are briefly discussed. The possibilities to involve detectors based on plasmon resonance FETs (field effect transistors) and those based on warm electron effect narrow-gap semiconductor bolometers are speculated, as they seem to be promising for using in large format broadband arrays of low-cost systems, though they are still in the stage of research and optimization.