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Oral presentation | 4 JSAP-OSA Joint Symposia 2017 | 4.7 Terahertz Photonics

## [7p-A409-1~5]4.7 Terahertz Photonics

Chiko Otani(RIKEN)

Thu. Sep 7, 2017 1:15 PM - 3:00 PM A409 (409)

△：奨励賞エントリー

▲：英語発表

▼：奨励賞エントリーかつ英語発表

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1:15 PM - 1:45 PM

### ▲[7p-A409-1][JSAP-OSA Joint Symposia 2017 Invited Talk]

#### Millimeter-wave and terahertz applications enabled by photonics

OTadao Nagatsuma<sup>1</sup> (1.Osaka University)

Keywords:terahertz, millimeter wave, application

This talk presents how effectively photonics technologies are implemented not only in generation, detection and transmission of continuous millimeter waves (MMW) and terahertz (THz) waves, but also in system applications such as communications, measurements, spectroscopy and imaging to efficiently enhance their performance. In addition, recent challenges in photonic integration technologies are described to make MMW/THz systems more compact and cost-effective.