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[10p-Z24-1~16]3.9 Terahertz technologies

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Thu. Sep 10, 2020 1:25 PM - 5:30 PM Z24

△ : Presentation by Applicant for JSAP Young Scientists Presentation Award

▲ : English Presentation

▼ : Both of Above

No Mark : None of Above

1:30 PM - 1:45 PM

[10p-Z24-2][The 4th Photonics Division Award Speech] Demonstration of tunable backward terahertz-wave parametric oscillation

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Keywords:Nonlinear wavelength conversion, Terahertz-wave parametric oscillation, Quasi-phase-matching device

We demonstrated tunable backward terahertz (THz)-wave parametric oscillation. The oscillation was emerged by the simple scheme without cavity mirrors. Noteworthy, the tunability was provided by just rotating the angle of a nonlinear crystal. The capability would realize mobile and ubiquitous THz-wave sources combining with robots.