



Contribution ID: 209

Type: **poster**

## Nonlinear Fourier Transform Spectroscopy of O<sub>2</sub> with Intense Attosecond Pulse Trains

*Wednesday 3 July 2019 18:00 (2 hours)*

We investigated the dissociative ionization of O<sub>2</sub> by pump-probe measurements using extreme-ultraviolet attosecond pulse trains, and revealed that an electron-nuclear wave packet composed of O<sub>2</sub><sup>+</sup>(B<sup>2</sup>Σ<sub>g</sub><sup>-</sup>) and O<sub>2</sub><sup>+</sup>(3<sup>2</sup>Π<sub>u</sub>) is created by the pump pulse train.

**Authors:** Dr FUKAHORI, Shinichi (RIKEN Center for Advanced Photonics); Mr MATSUBARA, Takuya (RIKEN Center for Advanced Photonics); Dr NABEKAWA, Yasuo (RIKEN Center for Advanced Photonics); Prof. YAMANOUCHI, Kaoru (The University of Tokyo); Prof. MIDORIKAWA, Katsumi (RIKEN Center for Advanced Photonics)

**Presenter:** Dr FUKAHORI, Shinichi (RIKEN Center for Advanced Photonics)

**Session Classification:** Poster session 2