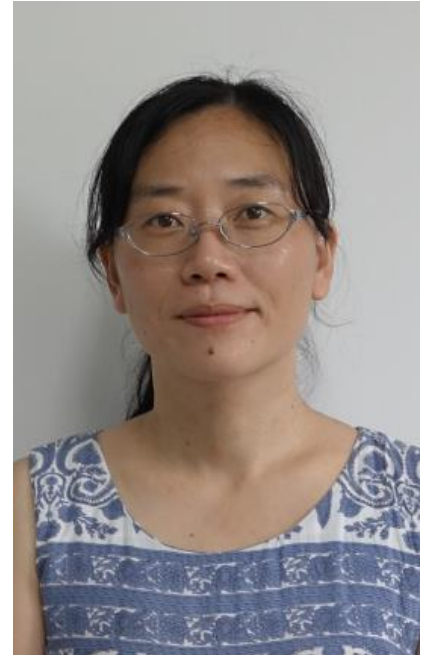


## TRR Guest Scientist Lecture / Seminar

Date/Time: Tuesday, 09.07.2019 / 14:00 Uhr  
Location: Paderborn, Room N3.216



**Prof. Dr. Xiaohong Song**

*Shantou University, Swatow, Guandgdong  
Shantou, China*

### Time resolved strong-field ultrafast electron dynamics in atoms and semiconductors

**Abstract:**

Ultrafast strong-field physics provides insight into electronic dynamics on an attosecond time scale. Here we will present our recent works about how to use two-color schemes to probe ultrafast electron dynamics in atoms and to control high-order harmonic generation in semiconductors.

[1] Xiaohong Song, Guangluo Shi, Guojun Zhang, Jingwen Xu, Cheng Lin, Jing Chen, and Weifeng Yang, "Attosecond time delay of retrapped resonant ionization", Phys. Rev. Lett. 121, 103201 (2018).

[2] Xiaohong Song, Ruixin Zuo, Shidong Yang, Pengcheng Li, Torsten Meier, and Weifeng Yang, "Attosecond temporal confinement of interband excitation by intraband motion", Optics Express 27, 2225 (2019).

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