



Contribution ID: 187

Type: **oral**

Towards Attosecond Photoemission Electron Microscopy: Ultrafast Dynamics on Gold Nanosponges

Friday 5 July 2019 11:30 (15 minutes)

We investigate the ultrafast dynamics on single gold nanosponges by imaging the random and long-lived localization of surface plasmons using time-resolved photoemission electron microscopy. The steps towards attosecond time resolution are discussed.

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Session Classification: Mapping of ultrafast quantum dynamics in solids and liquids