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Nanoplasmonics for ultimate spatiotemporal characterization of optical near-fields

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Nano-optical near fields already play a fundamental role in many nanotechnology applications including photovoltaics, sensorics and biomedicine. The characterization of nanoscale changes of the electromagnetic field on ultrashort (femto- and attosecond) time-scales is a core requirement for developing applications. I will show how ultrafast photoemission from and photoelectron spectroscopy on nanoscale systems can help to achieve these goals.

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