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**UNIVERSITÄT
BERN**

Seminar über Ultrafast Science and Technology

Referent: Dr. Hirofumi Yanagisawa, Institute for Quantum Electronics, ETH Zürich

Titel: Laser-induced field emission from a tungsten tip in weak and strong optical fields

Illuminating a sharp metallic tip with femtosecond laser pulses leads to pulsed field emission. In this presentation, we will present three topics on the laser-induced field emission. Firstly we go through our previous work on site-selective laser-induced field emission from a tungsten tip¹) and its emission mechanism in weak optical fields²), and then we particularly focus on our recent results on emission mechanism in strong optical fields³). 1) H. Yanagisawa, et. al., Phys. Rev. Lett. 103, 257603 (2009). 2) H. Yanagisawa, et. al., Phys. Rev. Lett. 107, 087601 (2011). 3) H. Yanagisawa, et. al., arXiv: 1405.0609 (2014)

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