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Kyev Hi: 2 °C Low: -1 °C Hi: 2 °C Low: 0 °C [10 days](#)

Scientists observe electron stripping

German physicists said they have used intense light fields to "observe" electrons being stripped from atoms.

Ferenc Krausz and colleagues at the Max Planck Institute for Quantum Optics said their technique should offer control over and provide insights into the dynamics of electrons inside atoms and molecules.

Given enough energy, electrons can 'tunnel' through and escape the potential barrier that binds them to their nucleus. Krausz and colleagues have now "seen" that light-induced electron tunneling happen in real time on an attosecond -- 1 billionth of 1 billionth of a second -- timescale.

The team ionized neon atoms with ultrafast far-ultraviolet pulses and probed them with near-infrared pulses. From the observed spectra, they were able to reconstruct the electron tunneling.

The study is explained in the journal Nature.

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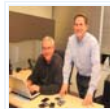
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Making Cell Phones Safe

Nick Magliato recalls knocking back a few with friends at a bar last year and wondering aloud why laptop security was front and center while protecting cell phone data wasn't. So Magliato, CEO of Trust Digital, which makes enterprise smart phone software for more that 120 corporate and government clients, did a little test.

He bought 11 phones on eBay, and after downloading the data left on them by the sellers, he printed out a stack of paper nine feet high. It was rife with confidanti [more...](#)

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