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## Terahertz Lightwave Control of Solids and Single Molecules

*Tuesday 2 July 2019 09:00 (30 minutes)*

We switch the valley pseudospin in monolayer WSe<sub>2</sub> and drive all-ballistic Dirac currents on a topological insulator on subcycle scales. A lightwave-driven scanning-tunneling microscope allows for the first-ever femtosecond single-molecule videography and reaction microscopy.

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**Session Classification:** High-harmonic generation in solids and liquids