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**Photo-induced currents in the topological insulator Bi<sub>2</sub>Se<sub>3</sub>**

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— We report the observation of photo-induced currents in micro-devices built from exfoliated single crystals of Bi<sub>2</sub>Se<sub>3</sub>. Our experiments are performed using ultrashort laser pulses at 800 nm and in the absence of an applied bias. We find that the induced currents scale quadratically with laser field strength, confirming their second order nature. We will present the temperature dependence of these second order currents and discuss their microscopic origin.

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