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Time-resolved Orbital Imaging by Photoelectrons

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We demonstrate imaging of bound electron wave packets following ionization. Using a pump-probe-deflect scheme, a superposition of spin-orbit states is prepared in Ar^+ and a movie of the wave packet evolution is recorded.

Authors: KÜBEL, Matthias (Friedrich Schiller University Jena); Mr DUBE, Zack (National Research Council of Canada); NAUMOV, Andrei (National Research Council of Canada); Dr VILLENEUVE, David M. (National Research Council of Canada); Prof. CORKUM, Paul (National Research Council of Canada); Dr STAUDTE, André (National Research Council of Canada)

Presenter: KÜBEL, Matthias (Friedrich Schiller University Jena)

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