

Abstract Submitted
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Strong-field ionization of dynamically aligned molecules IGOR LITVINYUK, ALI ALNASER, IRINA BOCHAROVA, CHAKRA MAHARJAN, LEW COCKE, Kansas State University, J.R. MACDONALD LABORATORY, KSU TEAM — In a pump-probe experiment molecules (N₂, O₂) were first dynamically aligned by creating coherent rotational wavepackets with a 30 fs 800 nm pump pulse, and then singly ionized by a properly delayed more intense probe pulse. The momentum distributions of electrons and ions produced by the tunneling strong-field ionization were measured for different alignments of molecular axes with respect to electric field vector.

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