Coulomb Explosion of Transition Metal Oxides$^1$ D.E. BLUMLING, S.G. SAYRES, A.W. CASTLEMAN, JR., Penn State University — Intense femtosecond pulses of light (624 nm) are employed to investigate the formation of high charge states and kinetic energy release (KER) from the Coulomb explosion of various transition metal oxide clusters. A molecular dynamics simulation is used to predict KER values for the ground state structures of the representative species as determined by density functional theory calculations.

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