Double Auger Decay following K-Shell Photoionization of Neon\textsuperscript{1}
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\[
\text{Ne}(1s^{-1})^+ + e_{\text{photo}}^- \rightarrow \text{Ne}^{3+} + e_{\text{photo}}^- + e_{\text{Auger}}^- + e_{\text{Auger}}^-,
\]

where we measure two of the electrons directly and infer the momentum of the third through momentum conservation of the four-particle final state. Analysis is underway to better understand the k-hole relaxation process following photoionization and successive Auger decay(s).

\textsuperscript{1}Supported by AMOS Program, Office of BES, Division of Chemical Sciences, U.S. Dept. of Energy