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## **Supplementary Information**

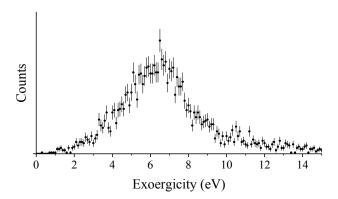


Figure SI 1: Total exoergicity spectrum for the DSET reaction,  $Ar^{2+} + N_2 \rightarrow Ar^+ + N^+ + N$ . The error bars represent two standard deviations of the associated counts.