Electric Dipole Moments of Neutral Sodium Clusters\textsuperscript{1} JOHN BOWLAN, ANTHONY LIANG, WALT DE HEER, Georgia Tech, DE HEER GROUP TEAM — Recent ab initio studies have predicted large electric dipole moments in neutral Na clusters. We performed an electric deflection experiment on these clusters at 20 K and have found upper bounds on their dipole moments that are orders of magnitude smaller than predicted, and consistent with zero.

\textsuperscript{1}Supported by the National Science Foundation.