Electronic Supplementary Material (ESI) for Physical Chemistry Chemical Physics. This journal is © the Owner Societies 2018

Electronic Supplementary Information

The adsorption of helium atoms on small cationic gold clusters

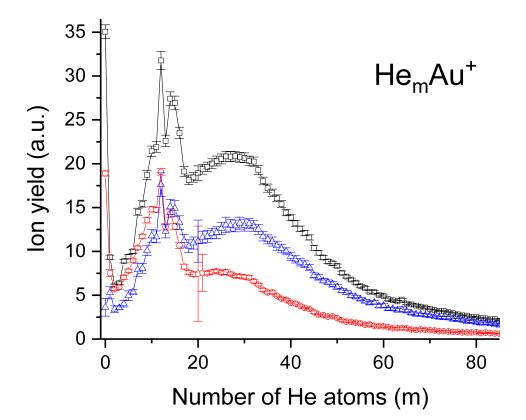
Marcelo Goulart, ¹ Michael Gatchell, ^{1,2} Lorenz Kranabetter, ¹ Martin Kuhn, ¹ Paul Martini, ¹ Norbert Gitzl, ¹ Manuel Rainer, ¹ Johannes Postler, ¹ Paul Scheier^{1,*} and Andrew M. Ellis^{3,*}

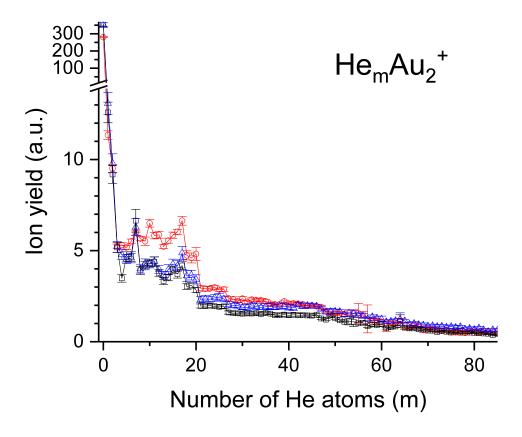
- Institut f
 ür Ionenphysik und Angewandte Physik, Universit
 ät Innsbruck, Technikerstr. 25, A-6020 Innsbruck, Austria
- ² Department of Physics, Stockholm University, 106 91 Stockholm, Sweden
- Department of Chemistry, University of Leicester, University Road, Leicester, LE1 7RH, UK

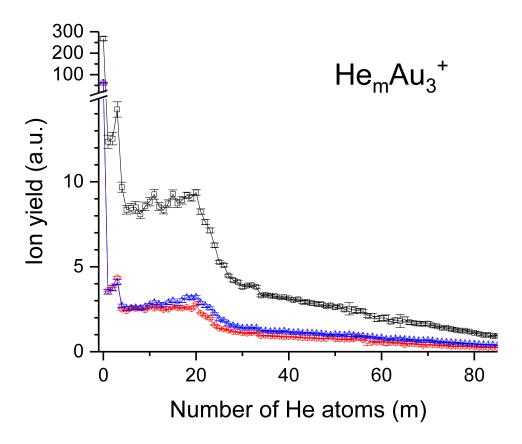
Email: paul.scheier@uibk.ac.at; andrew.ellis@le.ac.uk

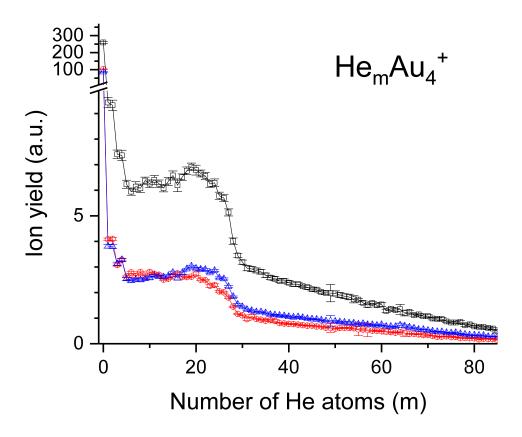
Experimental data

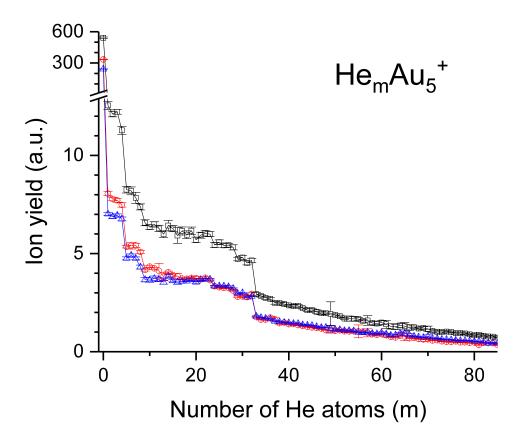
A complete set of the ion abundance plots determined from mass spectrometry of gold-doped helium droplets is provided below.

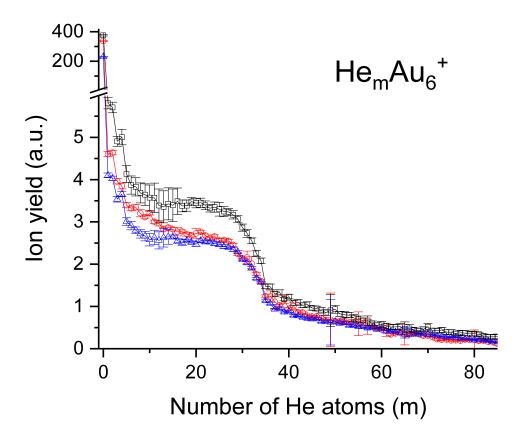


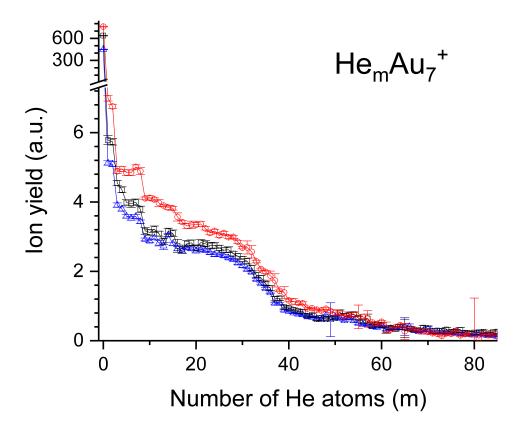


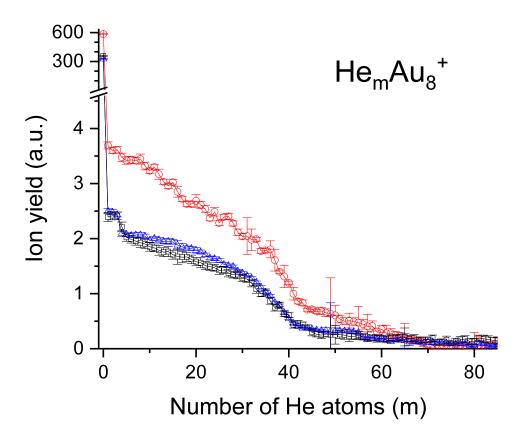


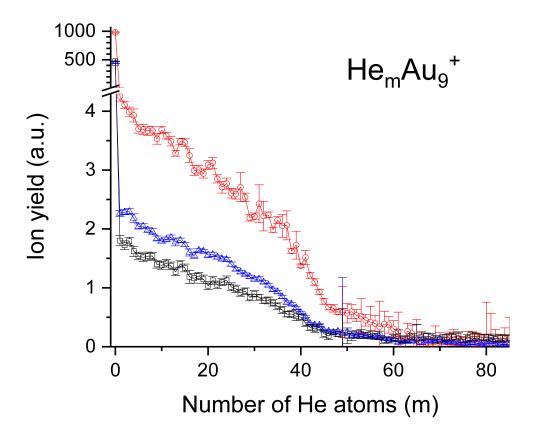


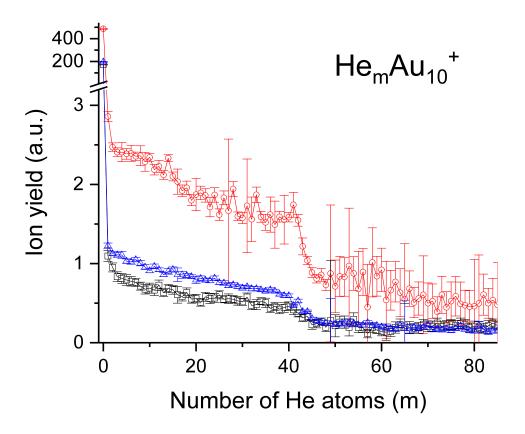


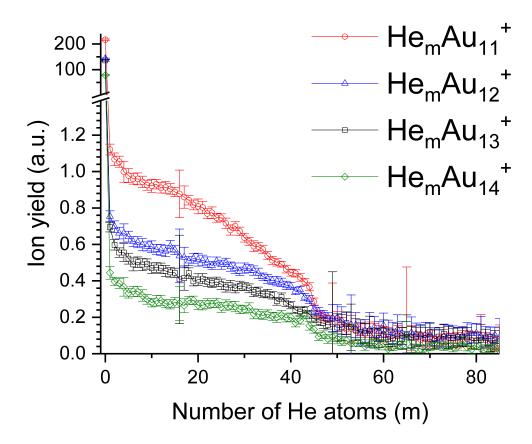












Calculated (MP2) helium binding sites and binding energies for Au_n^+ ions up to and including n = 6

