

Electronic Supplementary Information (ESI) for “Quantification of ions with identical mass-to-charge (m/z) ratios by velocity-map imaging mass spectrometry” by James N Bull, Jason W L Lee and Claire Vallance.

Numerical tabulation of partial ionization cross-sections reported in Fig. 2, in units of \AA^2 . Errors are given at the 95% confidence level.

EE / eV	$m/z = 14$ (gross)	$m/z = 14$ error	$m/z = 28$ (gross)	$m/z = 28$ error	N_2^{2+} (counting)	N_2^{2+} error
20			0.522	0.035		
25			0.828	0.030		
30	0.093	0.034	1.036	0.027		
35	0.147	0.004	1.238	0.022		
40	0.195	0.005	1.396	0.021		
45	0.260	0.007	1.496	0.020	0.0012	0.0006
50	0.336	0.009	1.581	0.020	0.0067	0.0009
55	0.388	0.010	1.634	0.020	0.0117	0.0016
60	0.412	0.010	1.725	0.044	0.0161	0.0019
65	0.436	0.011	1.802	0.024	0.0199	0.0023
70	0.476	0.012	1.814	0.023	0.0267	0.0028
75	0.520	0.013	1.830	0.023	0.0338	0.0037
80	0.537	0.014	1.879	0.024	0.0376	0.0036
85	0.535	0.014	1.897	0.025	0.0404	0.0042
90	0.559	0.014	1.915	0.025	0.0444	0.0043
95	0.587	0.015	1.914	0.024	0.0481	0.0046
100	0.600	0.015	1.913	0.024	0.0534	0.0049