

S2 Table. Fitting coefficients of the comet distributions.

Time (min)	Alpha particles		X-rays		Mixed beams	
	<i>a</i>	<i>b</i>	<i>a</i>	<i>b</i>	<i>a</i>	<i>b</i>
0	1.73 ± 0.07	7.1 ± 0.2	1.99 ± 0.06	12.7 ± 0.3	2.5 ± 1.0	18.6 ± 0.4
15	1.55 ± 0.03	6.69 ± 0.09	1.64 ± 0.06	8.2 ± 0.3	2.42 ± 0.10	13.1 ± 0.3
30	1.46 ± 0.03	5.28 ± 0.09	1.57 ± 0.06	7.4 ± 0.2	2.12 ± 0.08	12.1 ± 0.3
60	1.46 ± 0.06	5.64 ± 0.18	1.64 ± 0.04	5.81 ± 0.12	2.07 ± 0.07	11.7 ± 0.3
120	1.52 ± 0.03	5.38 ± 0.07	1.65 ± 0.05	5.73 ± 0.12	2.15 ± 0.06	9.94 ± 0.18
180	1.25 ± 0.04	4.18 ± 0.12	1.21 ± 0.05	5.4 ± 0.2	1.88 ± 0.06	9.9 ± 0.2