

Supplementary material for LHCb-PAPER-2020-027

Tables 1, 2 and 3 present the detection efficiencies and the upper limits on production cross-section times branching fraction as a function of m_{LLP} and τ_{LLP} for the LLPs produced through the DPP, HIG and CC mechanisms, respectively.

Table 1: Efficiency in percentage, and 95 % CL upper limits on the production cross-section times branching fraction for LLPs produced through the DPP mechanism.

m_{LLP}	τ_{LLP}	ϵ	expected UL	observed UL
7.0	2	4.1 ± 0.4	$0.16^{+0.08}_{-0.05}$	0.15
7.0	5	4.5 ± 0.4	$0.14^{+0.07}_{-0.04}$	0.12
7.0	10	3.8 ± 0.4	$0.18^{+0.09}_{-0.06}$	0.15
7.0	25	2.3 ± 0.3	$0.27^{+0.24}_{-0.09}$	0.24
7.0	50	1.4 ± 0.2	$0.47^{+0.15}_{-0.15}$	0.37
7.8	2	4.1 ± 0.4	$0.13^{+0.07}_{-0.04}$	0.16
7.8	5	4.5 ± 0.4	$0.12^{+0.06}_{-0.04}$	0.13
7.8	10	3.9 ± 0.4	$0.14^{+0.07}_{-0.04}$	0.15
7.8	25	2.4 ± 0.3	$0.23^{+0.12}_{-0.07}$	0.23
7.8	50	1.5 ± 0.2	$0.37^{+0.18}_{-0.12}$	0.35
8.7	2	4.1 ± 0.4	$0.11^{+0.06}_{-0.04}$	0.10
8.7	5	4.5 ± 0.4	$0.10^{+0.05}_{-0.03}$	0.09
8.7	10	4.0 ± 0.4	$0.12^{+0.06}_{-0.04}$	0.10
8.7	25	2.6 ± 0.3	$0.19^{+0.09}_{-0.06}$	0.15
8.7	50	1.6 ± 0.2	$0.30^{+0.15}_{-0.09}$	0.23
9.7	2	4.1 ± 0.4	$0.10^{+0.05}_{-0.03}$	0.06
9.7	5	4.6 ± 0.4	$0.09^{+0.04}_{-0.03}$	0.06
9.7	10	4.1 ± 0.4	$0.10^{+0.05}_{-0.03}$	0.06
9.7	25	2.7 ± 0.3	$0.15^{+0.08}_{-0.04}$	0.09
9.7	50	1.7 ± 0.2	$0.24^{+0.12}_{-0.07}$	0.14
10.8	2	4.0 ± 0.4	$0.08^{+0.04}_{-0.03}$	0.09
10.8	5	4.6 ± 0.4	$0.07^{+0.04}_{-0.02}$	0.08
10.8	10	4.2 ± 0.4	$0.08^{+0.04}_{-0.03}$	0.08
10.8	25	2.9 ± 0.3	$0.12^{+0.06}_{-0.04}$	0.12
10.8	50	1.8 ± 0.2	$0.19^{+0.10}_{-0.06}$	0.18
12.1	2	4.0 ± 0.4	$0.07^{+0.04}_{-0.02}$	0.06
12.1	5	4.6 ± 0.4	$0.06^{+0.03}_{-0.02}$	0.05
12.1	10	4.3 ± 0.4	$0.07^{+0.04}_{-0.02}$	0.06
12.1	25	3.0 ± 0.3	$0.10^{+0.05}_{-0.03}$	0.08
12.1	50	2.0 ± 0.2	$0.15^{+0.08}_{-0.05}$	0.12
13.5	2	4.0 ± 0.4	$0.07^{+0.04}_{-0.02}$	0.07
13.5	5	4.6 ± 0.4	$0.06^{+0.03}_{-0.02}$	0.06
13.5	10	4.4 ± 0.4	$0.06^{+0.03}_{-0.02}$	0.06
13.5	25	3.2 ± 0.3	$0.09^{+0.05}_{-0.03}$	0.09
13.5	50	2.1 ± 0.2	$0.14^{+0.07}_{-0.05}$	0.13
15.1	2	4.0 ± 0.4	$0.07^{+0.04}_{-0.02}$	0.13
15.1	5	4.7 ± 0.4	$0.06^{+0.03}_{-0.02}$	0.11
15.1	10	4.5 ± 0.4	$0.06^{+0.03}_{-0.02}$	0.12
15.1	25	3.4 ± 0.4	$0.09^{+0.05}_{-0.03}$	0.15
15.1	50	2.3 ± 0.2	$0.13^{+0.07}_{-0.04}$	0.23
16.9	2	4.0 ± 0.4	$0.08^{+0.04}_{-0.03}$	0.11
16.9	5	4.7 ± 0.4	$0.07^{+0.03}_{-0.02}$	0.09
16.9	10	4.6 ± 0.4	$0.07^{+0.04}_{-0.02}$	0.09
16.9	25	3.5 ± 0.4	$0.09^{+0.05}_{-0.03}$	0.12
16.9	50	2.4 ± 0.2	$0.14^{+0.07}_{-0.04}$	0.18
18.9	2	4.0 ± 0.4	$0.10^{+0.05}_{-0.03}$	0.07
18.9	5	4.7 ± 0.4	$0.08^{+0.04}_{-0.02}$	0.06
18.9	10	4.6 ± 0.5	$0.08^{+0.04}_{-0.03}$	0.06
18.9	25	3.6 ± 0.4	$0.10^{+0.05}_{-0.03}$	0.08
18.9	50	2.6 ± 0.3	$0.15^{+0.07}_{-0.05}$	0.10

m_{LLP}	τ_{LLP}	ϵ	expected UL	observed UL
21.2	2	3.9 ± 0.4	$0.11^{+0.06}_{-0.04}$	0.07
21.2	5	4.7 ± 0.4	$0.09^{+0.05}_{-0.03}$	0.06
21.2	10	4.7 ± 0.5	$0.09^{+0.05}_{-0.03}$	0.07
21.2	25	3.8 ± 0.4	$0.11^{+0.06}_{-0.04}$	0.08
21.2	50	2.7 ± 0.3	$0.16^{+0.08}_{-0.05}$	0.11
23.8	2	3.9 ± 0.4	$0.11^{+0.06}_{-0.04}$	0.15
23.8	5	4.7 ± 0.4	$0.09^{+0.05}_{-0.03}$	0.13
23.8	10	4.7 ± 0.5	$0.09^{+0.05}_{-0.03}$	0.14
23.8	25	3.9 ± 0.4	$0.11^{+0.06}_{-0.04}$	0.16
23.8	50	2.8 ± 0.3	$0.15^{+0.08}_{-0.05}$	0.21
26.7	2	3.8 ± 0.4	$0.12^{+0.06}_{-0.04}$	0.09
26.7	5	4.6 ± 0.4	$0.10^{+0.05}_{-0.03}$	0.08
26.7	10	4.7 ± 0.5	$0.10^{+0.05}_{-0.03}$	0.08
26.7	25	3.9 ± 0.4	$0.11^{+0.06}_{-0.04}$	0.09
26.7	50	2.9 ± 0.3	$0.15^{+0.08}_{-0.05}$	0.12
29.8	2	3.8 ± 0.4	$0.12^{+0.06}_{-0.04}$	0.07
29.8	5	4.5 ± 0.4	$0.10^{+0.05}_{-0.03}$	0.06
29.8	10	4.6 ± 0.5	$0.10^{+0.05}_{-0.03}$	0.06
29.8	25	3.9 ± 0.5	$0.12^{+0.06}_{-0.04}$	0.07
29.8	50	3.0 ± 0.3	$0.15^{+0.08}_{-0.05}$	0.09
33.3	2	3.7 ± 0.4	$0.13^{+0.06}_{-0.04}$	0.15
33.3	5	4.4 ± 0.4	$0.11^{+0.05}_{-0.03}$	0.14
33.3	10	4.5 ± 0.5	$0.11^{+0.05}_{-0.03}$	0.14
33.3	25	3.9 ± 0.5	$0.12^{+0.06}_{-0.04}$	0.17
33.3	50	3.0 ± 0.3	$0.15^{+0.08}_{-0.05}$	0.20
37.2	2	3.5 ± 0.4	$0.14^{+0.07}_{-0.04}$	0.23
37.2	5	4.2 ± 0.4	$0.11^{+0.05}_{-0.04}$	0.20
37.2	10	4.3 ± 0.5	$0.11^{+0.06}_{-0.04}$	0.21
37.2	25	3.8 ± 0.5	$0.13^{+0.07}_{-0.04}$	0.24
37.2	50	3.0 ± 0.3	$0.16^{+0.08}_{-0.05}$	0.29
41.7	2	3.4 ± 0.4	$0.15^{+0.08}_{-0.05}$	0.16
41.7	5	4.0 ± 0.4	$0.12^{+0.06}_{-0.04}$	0.14
41.7	10	4.1 ± 0.5	$0.12^{+0.06}_{-0.04}$	0.15
41.7	25	3.6 ± 0.5	$0.14^{+0.07}_{-0.05}$	0.18
41.7	50	2.9 ± 0.3	$0.17^{+0.08}_{-0.05}$	0.21
47.0	2	3.1 ± 0.4	$0.16^{+0.08}_{-0.05}$	0.22
47.0	5	3.6 ± 0.4	$0.13^{+0.07}_{-0.04}$	0.20
47.0	10	3.8 ± 0.5	$0.13^{+0.07}_{-0.04}$	0.20
47.0	25	3.4 ± 0.5	$0.15^{+0.09}_{-0.05}$	0.25
47.0	50	2.7 ± 0.3	$0.18^{+0.09}_{-0.06}$	0.29
50.0	2	2.8 ± 0.4	$0.17^{+0.09}_{-0.06}$	0.19
50.0	5	3.4 ± 0.4	$0.14^{+0.07}_{-0.05}$	0.16
50.0	10	3.6 ± 0.5	$0.14^{+0.07}_{-0.04}$	0.17
50.0	25	3.2 ± 0.5	$0.16^{+0.09}_{-0.05}$	0.21
50.0	50	2.5 ± 0.3	$0.20^{+0.11}_{-0.07}$	0.26

Table 2: Efficiency in percentage, and 95 % CL upper limits on the production cross-section times branching fraction for LLPs produced through the HIG mechanism.

m_{LLP}	τ_{LLP}	ϵ	expected UL	observed UL	m_{LLP}	τ_{LLP}	ϵ	expected UL	observed UL
7.0	2	3.4 ± 0.4	$0.19_{-0.06}^{+0.10}$	0.18	21.2	2	3.3 ± 0.4	$0.13_{-0.04}^{+0.07}$	0.09
7.0	5	3.6 ± 0.5	$0.18_{-0.06}^{+0.09}$	0.16	21.2	5	3.9 ± 0.5	$0.11_{-0.04}^{+0.06}$	0.08
7.0	10	2.8 ± 0.4	$0.23_{-0.08}^{+0.13}$	0.20	21.2	10	3.9 ± 0.6	$0.11_{-0.04}^{+0.06}$	0.08
7.0	25	1.5 ± 0.3	$0.42_{-0.15}^{+0.25}$	0.36	21.2	25	2.9 ± 0.5	$0.15_{-0.05}^{+0.08}$	0.10
7.0	50	0.89 ± 0.16	$0.76_{-0.24}^{+0.42}$	0.60	21.2	50	1.9 ± 0.3	$0.22_{-0.08}^{+0.08}$	0.15
7.8	2	3.4 ± 0.4	$0.16_{-0.05}^{+0.08}$	0.19	23.8	2	3.2 ± 0.4	$0.14_{-0.05}^{+0.08}$	0.17
7.8	5	3.6 ± 0.5	$0.15_{-0.06}^{+0.08}$	0.17	23.8	5	3.8 ± 0.5	$0.11_{-0.04}^{+0.06}$	0.16
7.8	10	2.9 ± 0.5	$0.19_{-0.06}^{+0.10}$	0.21	23.8	10	3.9 ± 0.6	$0.11_{-0.04}^{+0.07}$	0.17
7.8	25	1.7 ± 0.3	$0.34_{-0.11}^{+0.22}$	0.34	23.8	25	3.0 ± 0.5	$0.14_{-0.05}^{+0.08}$	0.20
7.8	50	0.98 ± 0.17	$0.59_{-0.19}^{+0.32}$	0.57	23.8	50	2.0 ± 0.3	$0.21_{-0.07}^{+0.12}$	0.29
8.7	2	3.4 ± 0.4	$0.14_{-0.04}^{+0.07}$	0.12	26.7	2	3.1 ± 0.4	$0.14_{-0.05}^{+0.07}$	0.10
8.7	5	3.7 ± 0.5	$0.13_{-0.05}^{+0.07}$	0.11	26.7	5	3.8 ± 0.5	$0.12_{-0.04}^{+0.06}$	0.09
8.7	10	3.1 ± 0.5	$0.16_{-0.05}^{+0.08}$	0.13	26.7	10	3.8 ± 0.6	$0.12_{-0.04}^{+0.06}$	0.10
8.7	25	1.8 ± 0.3	$0.27_{-0.15}^{+0.15}$	0.21	26.7	25	3.0 ± 0.5	$0.15_{-0.05}^{+0.08}$	0.12
8.7	50	1.1 ± 0.2	$0.47_{-0.15}^{+0.25}$	0.36	26.7	50	2.1 ± 0.3	$0.21_{-0.07}^{+0.12}$	0.17
9.7	2	3.4 ± 0.4	$0.12_{-0.04}^{+0.06}$	0.08	29.8	2	3.0 ± 0.4	$0.15_{-0.05}^{+0.08}$	0.08
9.7	5	3.7 ± 0.5	$0.11_{-0.03}^{+0.06}$	0.07	29.8	5	3.7 ± 0.5	$0.13_{-0.04}^{+0.07}$	0.07
9.7	10	3.2 ± 0.5	$0.13_{-0.04}^{+0.07}$	0.08	29.8	10	3.7 ± 0.6	$0.13_{-0.04}^{+0.07}$	0.07
9.7	25	2.0 ± 0.3	$0.21_{-0.06}^{+0.12}$	0.13	29.8	25	3.0 ± 0.5	$0.15_{-0.05}^{+0.08}$	0.09
9.7	50	1.2 ± 0.2	$0.36_{-0.11}^{+0.20}$	0.21	29.8	50	2.1 ± 0.4	$0.21_{-0.07}^{+0.12}$	0.12
10.8	2	3.4 ± 0.4	$0.10_{-0.03}^{+0.05}$	0.10	33.3	2	2.9 ± 0.4	$0.16_{-0.05}^{+0.08}$	0.19
10.8	5	3.8 ± 0.5	$0.09_{-0.03}^{+0.05}$	0.10	33.3	5	3.5 ± 0.5	$0.14_{-0.05}^{+0.07}$	0.18
10.8	10	3.3 ± 0.5	$0.10_{-0.03}^{+0.06}$	0.11	33.3	10	3.6 ± 0.6	$0.14_{-0.05}^{+0.08}$	0.18
10.8	25	2.1 ± 0.3	$0.16_{-0.05}^{+0.09}$	0.16	33.3	25	3.0 ± 0.5	$0.16_{-0.05}^{+0.09}$	0.22
10.8	50	1.3 ± 0.2	$0.27_{-0.09}^{+0.15}$	0.27	33.3	50	2.2 ± 0.4	$0.22_{-0.07}^{+0.12}$	0.28
12.1	2	3.4 ± 0.4	$0.09_{-0.03}^{+0.05}$	0.07	37.2	2	2.8 ± 0.4	$0.17_{-0.06}^{+0.09}$	0.28
12.1	5	3.8 ± 0.5	$0.08_{-0.03}^{+0.04}$	0.07	37.2	5	3.4 ± 0.5	$0.14_{-0.05}^{+0.08}$	0.26
12.1	10	3.4 ± 0.5	$0.09_{-0.03}^{+0.05}$	0.07	37.2	10	3.4 ± 0.6	$0.14_{-0.05}^{+0.08}$	0.27
12.1	25	2.3 ± 0.3	$0.14_{-0.05}^{+0.08}$	0.11	37.2	25	2.9 ± 0.6	$0.17_{-0.05}^{+0.10}$	0.32
12.1	50	1.4 ± 0.2	$0.22_{-0.08}^{+0.13}$	0.17	37.2	50	2.2 ± 0.4	$0.21_{-0.07}^{+0.12}$	0.39
13.5	2	3.4 ± 0.4	$0.09_{-0.03}^{+0.05}$	0.08	41.7	2	2.7 ± 0.4	$0.19_{-0.06}^{+0.09}$	0.20
13.5	5	3.9 ± 0.5	$0.08_{-0.03}^{+0.04}$	0.07	41.7	5	3.2 ± 0.5	$0.16_{-0.05}^{+0.09}$	0.19
13.5	10	3.6 ± 0.5	$0.08_{-0.03}^{+0.05}$	0.08	41.7	10	3.3 ± 0.6	$0.16_{-0.05}^{+0.09}$	0.19
13.5	25	2.4 ± 0.4	$0.12_{-0.04}^{+0.07}$	0.11	41.7	25	2.8 ± 0.6	$0.18_{-0.06}^{+0.11}$	0.23
13.5	50	1.5 ± 0.2	$0.20_{-0.07}^{+0.11}$	0.18	41.7	50	2.2 ± 0.4	$0.22_{-0.07}^{+0.12}$	0.28
15.1	2	3.4 ± 0.4	$0.09_{-0.03}^{+0.05}$	0.15	47.0	2	2.6 ± 0.3	$0.19_{-0.06}^{+0.10}$	0.27
15.1	5	3.9 ± 0.5	$0.08_{-0.03}^{+0.04}$	0.14	47.0	5	3.1 ± 0.5	$0.16_{-0.05}^{+0.09}$	0.24
15.1	10	3.7 ± 0.5	$0.08_{-0.03}^{+0.04}$	0.15	47.0	10	3.2 ± 0.6	$0.16_{-0.05}^{+0.09}$	0.26
15.1	25	2.6 ± 0.4	$0.12_{-0.04}^{+0.07}$	0.21	47.0	25	2.8 ± 0.6	$0.18_{-0.06}^{+0.11}$	0.31
15.1	50	1.6 ± 0.3	$0.19_{-0.07}^{+0.11}$	0.32	47.0	50	2.2 ± 0.4	$0.22_{-0.07}^{+0.12}$	0.35
16.9	2	3.3 ± 0.4	$0.10_{-0.03}^{+0.05}$	0.13	50.0	2	2.5 ± 0.3	$0.20_{-0.06}^{+0.10}$	0.21
16.9	5	3.9 ± 0.5	$0.09_{-0.03}^{+0.05}$	0.11	50.0	5	3.1 ± 0.5	$0.16_{-0.05}^{+0.09}$	0.19
16.9	10	3.8 ± 0.5	$0.09_{-0.03}^{+0.05}$	0.12	50.0	10	3.2 ± 0.6	$0.16_{-0.05}^{+0.09}$	0.20
16.9	25	2.7 ± 0.4	$0.12_{-0.04}^{+0.07}$	0.16	50.0	25	2.8 ± 0.6	$0.18_{-0.06}^{+0.11}$	0.24
16.9	50	1.7 ± 0.3	$0.19_{-0.04}^{+0.11}$	0.25	50.0	50	2.3 ± 0.4	$0.22_{-0.07}^{+0.12}$	0.29
18.9	2	3.3 ± 0.4	$0.12_{-0.04}^{+0.06}$	0.08					
18.9	5	3.9 ± 0.5	$0.10_{-0.03}^{+0.05}$	0.07					
18.9	10	3.8 ± 0.6	$0.10_{-0.03}^{+0.05}$	0.07					
18.9	25	2.8 ± 0.4	$0.14_{-0.04}^{+0.07}$	0.10					
18.9	50	1.8 ± 0.3	$0.21_{-0.07}^{+0.11}$	0.15					

Table 3: Efficiency in percentage, and 95 % CL upper limits on the production cross-section times branching fraction for LLPs produced through the CC mechanism.

m_{LLP}	τ_{LLP}	ϵ	expected UL	observed UL	m_{LLP}	τ_{LLP}	ϵ	expected UL	observed UL
7.0	2	1.5 ± 0.2	$0.48_{-0.16}^{+0.24}$	0.45	21.2	2	1.5 ± 0.2	$0.32_{-0.10}^{+0.16}$	0.21
7.0	5	1.6 ± 0.2	$0.42_{-0.14}^{+0.21}$	0.38	21.2	5	1.9 ± 0.2	$0.25_{-0.08}^{+0.13}$	0.17
7.0	10	1.4 ± 0.2	$0.51_{-0.17}^{+0.26}$	0.44	21.2	10	1.9 ± 0.2	$0.25_{-0.08}^{+0.13}$	0.18
7.0	25	0.85 ± 0.13	$0.83_{-0.27}^{+0.46}$	0.73	21.2	25	1.5 ± 0.2	$0.31_{-0.10}^{+0.16}$	0.21
7.0	50	0.50 ± 0.09	$1.52_{-0.48}^{+0.84}$	1.22	21.2	50	1.0 ± 0.1	$0.45_{-0.15}^{+0.24}$	0.30
7.8	2	1.5 ± 0.2	$0.41_{-0.13}^{+0.20}$	0.50	23.8	2	1.5 ± 0.2	$0.31_{-0.10}^{+0.17}$	0.41
7.8	5	1.7 ± 0.2	$0.36_{-0.11}^{+0.17}$	0.42	23.8	5	1.9 ± 0.2	$0.24_{-0.08}^{+0.12}$	0.36
7.8	10	1.5 ± 0.2	$0.42_{-0.13}^{+0.21}$	0.46	23.8	10	1.9 ± 0.2	$0.24_{-0.08}^{+0.13}$	0.37
7.8	25	0.90 ± 0.14	$0.70_{-0.36}^{+0.63}$	0.73	23.8	25	1.6 ± 0.2	$0.29_{-0.10}^{+0.16}$	0.42
7.8	50	0.54 ± 0.09	$1.18_{-0.38}^{+0.63}$	1.19	23.8	50	1.1 ± 0.1	$0.41_{-0.14}^{+0.23}$	0.57
8.7	2	1.5 ± 0.2	$0.35_{-0.11}^{+0.17}$	0.30	26.7	2	1.5 ± 0.2	$0.30_{-0.10}^{+0.16}$	0.22
8.7	5	1.7 ± 0.2	$0.31_{-0.09}^{+0.15}$	0.26	26.7	5	1.9 ± 0.2	$0.24_{-0.08}^{+0.12}$	0.20
8.7	10	1.5 ± 0.2	$0.35_{-0.11}^{+0.17}$	0.29	26.7	10	2.0 ± 0.2	$0.24_{-0.08}^{+0.13}$	0.20
8.7	25	0.96 ± 0.14	$0.56_{-0.17}^{+0.29}$	0.43	26.7	25	1.6 ± 0.2	$0.28_{-0.09}^{+0.15}$	0.24
8.7	50	0.58 ± 0.09	$0.95_{-0.29}^{+0.49}$	0.72	26.7	50	1.2 ± 0.2	$0.40_{-0.13}^{+0.21}$	0.32
9.7	2	1.5 ± 0.2	$0.30_{-0.09}^{+0.15}$	0.19	29.8	2	1.6 ± 0.2	$0.30_{-0.10}^{+0.15}$	0.16
9.7	5	1.7 ± 0.2	$0.26_{-0.08}^{+0.13}$	0.16	29.8	5	2.0 ± 0.2	$0.24_{-0.08}^{+0.12}$	0.14
9.7	10	1.5 ± 0.2	$0.28_{-0.09}^{+0.15}$	0.17	29.8	10	2.0 ± 0.2	$0.24_{-0.08}^{+0.12}$	0.15
9.7	25	1.0 ± 0.1	$0.44_{-0.13}^{+0.23}$	0.26	29.8	25	1.7 ± 0.2	$0.28_{-0.09}^{+0.15}$	0.17
9.7	50	0.63 ± 0.09	$0.73_{-0.22}^{+0.39}$	0.43	29.8	50	1.2 ± 0.2	$0.38_{-0.13}^{+0.20}$	0.22
10.8	2	1.5 ± 0.2	$0.26_{-0.08}^{+0.13}$	0.26	33.3	2	1.6 ± 0.2	$0.30_{-0.10}^{+0.15}$	0.35
10.8	5	1.7 ± 0.2	$0.22_{-0.07}^{+0.11}$	0.22	33.3	5	2.0 ± 0.2	$0.25_{-0.08}^{+0.12}$	0.31
10.8	10	1.6 ± 0.2	$0.23_{-0.07}^{+0.12}$	0.23	33.3	10	2.0 ± 0.2	$0.24_{-0.08}^{+0.12}$	0.32
10.8	25	1.1 ± 0.1	$0.34_{-0.11}^{+0.18}$	0.34	33.3	25	1.7 ± 0.2	$0.29_{-0.09}^{+0.15}$	0.38
10.8	50	0.68 ± 0.10	$0.55_{-0.18}^{+0.29}$	0.53	33.3	50	1.3 ± 0.2	$0.37_{-0.12}^{+0.19}$	0.49
12.1	2	1.5 ± 0.2	$0.22_{-0.08}^{+0.12}$	0.19	37.2	2	1.6 ± 0.2	$0.30_{-0.10}^{+0.15}$	0.47
12.1	5	1.7 ± 0.2	$0.19_{-0.06}^{+0.10}$	0.16	37.2	5	2.0 ± 0.2	$0.24_{-0.08}^{+0.12}$	0.42
12.1	10	1.6 ± 0.2	$0.20_{-0.07}^{+0.11}$	0.17	37.2	10	2.0 ± 0.2	$0.24_{-0.08}^{+0.12}$	0.43
12.1	25	1.2 ± 0.2	$0.29_{-0.10}^{+0.16}$	0.23	37.2	25	1.7 ± 0.2	$0.27_{-0.09}^{+0.14}$	0.52
12.1	50	0.74 ± 0.10	$0.45_{-0.15}^{+0.25}$	0.36	37.2	50	1.3 ± 0.2	$0.36_{-0.12}^{+0.19}$	0.65
13.5	2	1.5 ± 0.1	$0.22_{-0.07}^{+0.12}$	0.21	41.7	2	1.7 ± 0.2	$0.30_{-0.09}^{+0.15}$	0.32
13.5	5	1.8 ± 0.2	$0.18_{-0.06}^{+0.10}$	0.18	41.7	5	2.0 ± 0.2	$0.24_{-0.08}^{+0.12}$	0.28
13.5	10	1.7 ± 0.2	$0.18_{-0.06}^{+0.10}$	0.18	41.7	10	2.1 ± 0.3	$0.23_{-0.08}^{+0.12}$	0.29
13.5	25	1.2 ± 0.2	$0.26_{-0.09}^{+0.14}$	0.24	41.7	25	1.8 ± 0.2	$0.28_{-0.09}^{+0.15}$	0.36
13.5	50	0.80 ± 0.11	$0.41_{-0.14}^{+0.22}$	0.37	41.7	50	1.4 ± 0.2	$0.35_{-0.12}^{+0.18}$	0.44
15.1	2	1.5 ± 0.1	$0.22_{-0.07}^{+0.11}$	0.38	47.0	2	1.7 ± 0.2	$0.29_{-0.10}^{+0.14}$	0.40
15.1	5	1.8 ± 0.2	$0.18_{-0.06}^{+0.10}$	0.33	47.0	5	2.1 ± 0.2	$0.23_{-0.07}^{+0.11}$	0.35
15.1	10	1.7 ± 0.2	$0.19_{-0.06}^{+0.10}$	0.33	47.0	10	2.1 ± 0.3	$0.22_{-0.07}^{+0.11}$	0.35
15.1	25	1.3 ± 0.2	$0.25_{-0.09}^{+0.14}$	0.44	47.0	25	1.8 ± 0.2	$0.26_{-0.09}^{+0.15}$	0.44
15.1	50	0.86 ± 0.11	$0.39_{-0.13}^{+0.21}$	0.67	47.0	50	1.4 ± 0.2	$0.33_{-0.11}^{+0.18}$	0.53
16.9	2	1.5 ± 0.1	$0.24_{-0.08}^{+0.12}$	0.32	50.0	2	1.7 ± 0.2	$0.29_{-0.09}^{+0.14}$	0.31
16.9	5	1.8 ± 0.2	$0.20_{-0.06}^{+0.10}$	0.27	50.0	5	2.1 ± 0.2	$0.22_{-0.07}^{+0.11}$	0.26
16.9	10	1.8 ± 0.2	$0.20_{-0.06}^{+0.10}$	0.27	50.0	10	2.2 ± 0.3	$0.22_{-0.07}^{+0.11}$	0.27
16.9	25	1.4 ± 0.2	$0.26_{-0.08}^{+0.14}$	0.34	50.0	25	1.9 ± 0.2	$0.26_{-0.08}^{+0.13}$	0.34
16.9	50	0.92 ± 0.12	$0.40_{-0.12}^{+0.21}$	0.51	50.0	50	1.5 ± 0.2	$0.34_{-0.11}^{+0.17}$	0.43
18.9	2	1.5 ± 0.2	$0.28_{-0.09}^{+0.13}$	0.19					
18.9	5	1.9 ± 0.2	$0.23_{-0.07}^{+0.11}$	0.16					
18.9	10	1.8 ± 0.2	$0.23_{-0.07}^{+0.11}$	0.17					
18.9	25	1.4 ± 0.2	$0.29_{-0.09}^{+0.14}$	0.20					
18.9	50	0.98 ± 0.13	$0.43_{-0.14}^{+0.22}$	0.29					