Hooded broadcast sprayer for particle drift reduction

Supplemental File

This is a supplemental material for the manuscript entitled: "Hooded broadcast sprayer for particle drift reduction" authored by Bruno C. Vieira[1], Maxwel Coura Oliveira[1], Guilherme Souza Alves[2], Jeffrey A. Golus[2], Kasey Schroeder[2], Reid J. Smeda[3], Ryan J. Rector[4], Greg R. Kruger[2], Rodrigo Werle[1].

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Bayes Factor

The Bayes Factor (BF) interpretation is based on Lee and Wagenmakers (2014). The H_0 and H_1 mean that treatments are the same (null hypothesis) or different, respectively.

Table 1. Bayes Factor interpretation

Bayes Factor	Interpretation
> 100	Extreme evidence for H_1
30 – 100	Very strong evidence for H_1
10 – 30	Strong evidence for H_1
3 – 10	Moderate evidence for H_1
1 – 3	Anecdotal evidence for H_0
1	No evidence
1/3 – 1	Anecdotal evidence for H_0
1/3 – 1/10	Moderate evidence for H_0
1/10 – 1/30	Strong evidence for H_0
1/30 – 1/100	Very strong evidence for H_0
$< 1/100$	Extreme evidence for H_0

Tables

The tables correspond the pairwise comparisons between treatments presented in the manuscript figures. Some pairwise comparisons (mean) are different from the actual values in the figures due to non-transformed data (logit scale) or rounding numbers.

Figure 3

This section has the BF tables corresponding the Figure 3 in the manuscript.

Table 2. Treatment contrasts for D_{V10}. Bayes Factor is used to test pairwise treatment contrasts. This table represents figure 3A in the manuscript

Parameter	Mean	SD	95% CI	Bayes Factor
DRA-AIXR vs AIXR	0.14	0.04	[0.07, 0.21]	4.11
DRA-AIXR vs DRA-TTI	-0.71	0.04	[-0.79, -0.64]	> 1000
DRA-AIXR vs TTI	-0.49	0.04	[-0.56, -0.41]	> 1000
DRA-AIXR vs DRA-ULD	-0.23	0.04	[-0.30, -0.15]	765.49
DRA-AIXR vs ULD	0.10	0.04	[0.03, 0.18]	0.115
AIXR vs DRA-TTI	-0.86	0.04	[-0.93, -0.79]	> 1000
AIXR vs TTI	-0.63	0.04	[-0.71, -0.56]	> 1000
AIXR vs DRA-ULD	-0.37	0.04	[-0.45, -0.30]	224.41
AIXR vs ULD	-0.04	0.04	[-0.11, 0.03]	0.009
DRA-TTI vs TTI	0.23	0.04	[0.16, 0.30]	90.53
DRA-TTI vs DRA-ULD	0.49	0.04	[0.41, 0.56]	> 1000
DRA-TTI vs ULD	0.82	0.04	[0.74, 0.89]	> 1000
TTI vs DRA-ULD	0.26	0.04	[0.19, 0.34]	265.14
TTI vs ULD	0.59	0.04	[0.52, 0.67]	> 1000
DRA-ULD vs ULD	0.33	0.04	[0.25, 0.40]	> 1000

Table 3. Treatment contrasts for D_{V50}. Bayes Factor is used to test pairwise treatment contrasts. This table represents figure 3A in the manuscript

Parameter	Mean	SD	95% CI	BF
DRA-AIXR vs DRA-TTI	-0.60	0.04	[-0.67, -0.53]	> 1000
DRA-AIXR vs DRA-ULD	-0.19	0.04	[-0.26, -0.12]	102.08
DRA-AIXR vs AIXR	0.19	0.04	[0.12, 0.26]	34.92
DRA-AIXR vs TTI	-0.42	0.04	[-0.49, -0.34]	> 1000
DRA-AIXR vs ULD	0.14	0.04	[0.06, 0.21]	0.451
DRA-TTI vs DRA-ULD	0.41	0.04	[0.33, 0.48]	> 1000
DRA-TTI vs AIXR	0.79	0.04	[0.72, 0.86]	> 1000
DRA-TTI vs TTI	0.18	0.04	[0.11, 0.26]	12.54
DRA-TTI vs ULD	0.74	0.04	[0.66, 0.80]	> 1000
DRA-ULD vs AIXR	0.38	0.04	[0.31, 0.45]	> 1000
DRA-ULD vs TTI	-0.22	0.04	[-0.30, -0.15]	29.85
DRA-ULD vs ULD	0.33	0.04	[0.26, 0.40]	> 1000
AIXR vs TTI	-0.60	0.04	[-0.67, -0.53]	> 1000
AIXR vs ULD	-0.05	0.04	[-0.13, 0.02]	0.011
TTI vs ULD	0.55	0.04	[0.48, 0.62]	> 1000

Table 4. Treatment contrasts for D_{V90}. Bayes Factor is used to test pairwise treatment contrasts. This table represents figure 3A in the manuscript

Parameter	Mean	SD	95% CI	BF
DRA-AIXR vs DRA-TTI	-0.51	0.04	[-0.59, -0.44]	> 1000
DRA-AIXR vs DRA-ULD	-0.16	0.04	[-0.23, -0.09]	5.25
DRA-AIXR vs AIXR	0.24	0.04	[0.17, 0.32]	> 1000
DRA-AIXR vs TTI	-0.34	0.04	[-0.41, -0.26]	> 1000
DRA-AIXR vs ULD	0.09	0.04	[0.02, 0.17]	0.049
DRA-TTI vs DRA-ULD	0.35	0.04	[0.27, 0.42]	> 1000
DRA-TTI vs AIXR	0.75	0.04	[0.68, 0.83]	> 1000
DRA-TTI vs TTI	0.17	0.04	[0.10, 0.25]	4.42
DRA-TTI vs ULD	0.60	0.04	[0.53, 0.67]	> 1000

Parameter	Mean	SD	95% CI	BF
DRA-ULD vs AIXR	0.40	0.04	[0.33, 0.47]	> 1000
DRA-ULD vs TTI	-0.18	0.04	[-0.24, -0.10]	4.14
DRA-ULD vs ULD	0.25	0.04	[0.17, 0.32]	101.19
AIXR vs TTI	-0.58	0.04	[-0.66, -0.51]	> 1000
AIXR vs ULD	-0.15	0.04	[-0.23, -0.08]	1.30
TTI vs ULD	0.43	0.04	[0.36, 0.50]	> 1000

Table 5. Treatment contrasts for relative span. Bayes Factor is used to test pairwise treatment contrasts. This table represents figure 3B in the manuscript

Parameter	Mean	SD	95% CI	BF
DRA-AIXR vs DRA-TTI	0.20	0.04	[0.13, 0.27]	26.20
DRA-AIXR vs DRA-ULD	0.07	0.04	[0.00, 0.14]	0.009
DRA-AIXR vs AIXR	0.11	0.04	[0.04, 0.19]	0.579
DRA-AIXR vs TTI	0.15	0.04	[0.09, 0.23]	0.434
DRA-AIXR vs ULD	-0.05	0.04	[-0.12, 0.02]	0.001
DRA-TTI vs DRA-ULD	-0.14	0.04	[-0.20, -0.06]	0.154
DRA-TTI vs AIXR	-0.09	0.04	[-0.16, -0.02]	0.036
DRA-TTI vs TTI	-0.05	0.04	[-0.12, 0.02]	0.011
DRA-TTI vs ULD	-0.25	0.04	[-0.32, -0.18]	32.47
DRA-ULD vs AIXR	0.04	0.04	[-0.03, 0.12]	0.002
DRA-ULD vs TTI	0.09	0.04	[0.01, 0.16]	0.005
DRA-ULD vs ULD	-0.11	0.04	[-0.18, -0.04]	0.329
AIXR vs TTI	0.04	0.04	[-0.03, 0.12]	0.005
AIXR vs ULD	-0.16	0.04	[-0.23, -0.08]	0.569
TTI vs ULD	-0.20	0.04	[-0.27, -0.12]	1.92

Table 6. Treatment contrasts for % driftable fines < 200 µm. Bayes Factor is used to test pairwise treatment contrasts. This table represents figure 3C in the manuscript

Parameter	Mean	SD	95% CI	BF
DRA-AIXR vs DRA-TTI	2.38	0.33	[1.74, 3.03]	> 1000
DRA-AIXR vs DRA-ULD	0.66	0.19	[0.26, 1.00]	2.72
DRA-AIXR vs AIXR	-0.45	0.14	[-0.75, -0.19]	3.53
DRA-AIXR vs TTI	1.57	0.26	[1.07, 2.09]	89.16
DRA-AIXR vs ULD	-0.27	0.15	[-0.59, 0.02]	0.015
DRA-TTI vs DRA-ULD	-1.73	0.35	[-2.40, -1.05]	34.33
DRA-TTI vs AIXR	-2.83	0.33	[-3.45, -2.18]	> 1000
DRA-TTI vs TTI	-0.81	0.36	[-1.52, -0.09]	0.404
DRA-TTI vs ULD	-2.66	0.32	[-3.25, -1.97]	> 1000
DRA-ULD vs AIXR	-1.10	0.18	[-1.44, -0.73]	865.69
DRA-ULD vs TTI	0.91	0.28	[0.40, 1.48]	0.598
DRA-ULD vs ULD	-0.93	0.18	[-1.29, -0.58]	390.26
AIXR vs TTI	2.01	0.25	[1.55, 2.54]	> 1000
AIXR vs ULD	0.17	0.13	[-0.09, 0.44]	0.008
TTI vs ULD	-1.84	0.25	[-2.34, -1.37]	> 1000

Figure 4

This section has the BF tables corresponding the Figure 4 in the manuscript.

Table 7. Treatment contrasts for spray droplet deposition in-swath. Bayes Factor is used to test pairwise treatment contrasts. This table represents figure 4 in the manuscript

Parameter	Mean	SD	95% CI	BF
DRA-Hood-AIXR vs DRA-Hood-TTI	-1.44	21.01	[-45.09, 45.07]	0.794
DRA-Hood-AIXR vs DRA-Hood-ULD	-15.97	27.44	[-85.43, 24.72]	0.754
DRA-Hood-AIXR vs DRA-Open-AIXR	-215.26	44.73	[-298.79, -123.68]	> 1000
DRA-Hood-AIXR vs DRA-Open-TTI	-186.40	46.99	[-277.66, -93.77]	634.87
DRA-Hood-AIXR vs DRA-Open-ULD	-325.08	44.87	[-413.96, -239.35]	> 1000
DRA-Hood-AIXR vs Hood-AIXR	-5.27	25.44	[-64.64, 50.17]	0.758
DRA-Hood-AIXR vs Hood-TTI	-156.91	61.20	[-265.01, -16.18]	14.74
DRA-Hood-AIXR vs Hood-ULD	-91.58	62.35	[-201.17, 9.32]	2.33
DRA-Hood-AIXR vs Open-AIXR	39.76	49.63	[-24.16, 145.93]	1.24
DRA-Hood-AIXR vs Open-TTI	26.24	41.40	[-27.06, 126.79]	0.466
DRA-Hood-AIXR vs Open-ULD	84.50	61.48	[-12.00, 194.84]	2.76
DRA-Hood-TTI vs DRA-Hood-ULD	-14.53	31.54	[-86.24, 42.22]	0.582
DRA-Hood-TTI vs DRA-Open-AIXR	-213.82	44.48	[-297.30, -126.39]	> 1000
DRA-Hood-TTI vs DRA-Open-TTI	-184.96	46.84	[-280.66, -97.81]	826.26
DRA-Hood-TTI vs DRA-Open-ULD	-323.64	45.12	[-411.79, -237.53]	> 1000
DRA-Hood-TTI vs Hood-AIXR	-3.83	30.80	[-68.17, 59.57]	0.558
DRA-Hood-TTI vs Hood-TTI	-155.47	60.45	[-271.17, -25.40]	15.50
DRA-Hood-TTI vs Hood-ULD	-90.14	61.48	[-203.15, 18.42]	2.23
DRA-Hood-TTI vs Open-AIXR	41.20	49.76	[-32.65, 150.27]	0.862
DRA-Hood-TTI vs Open-TTI	27.68	43.17	[-51.08, 121.26]	0.411
DRA-Hood-TTI vs Open-ULD	85.94	60.36	[-15.99, 199.57]	2.16
DRA-Hood-ULD vs DRA-Open-AIXR	-199.29	46.68	[-286.98, -106.17]	880.98
DRA-Hood-ULD vs DRA-Open-TTI	-170.43	48.45	[-270.63, -81.11]	219.31
DRA-Hood-ULD vs DRA-Open-ULD	-309.11	47.02	[-400.98, -216.78]	> 1000
DRA-Hood-ULD vs Hood-AIXR	10.70	34.60	[-55.47, 91.69]	0.622
DRA-Hood-ULD vs Hood-TTI	-140.94	61.83	[-254.13, -8.62]	11.30
DRA-Hood-ULD vs Hood-ULD	-75.61	61.82	[-197.84, 27.93]	1.47
DRA-Hood-ULD vs Open-AIXR	55.73	51.24	[-24.48, 159.61]	1.39
DRA-Hood-ULD vs Open-TTI	42.21	45.78	[-27.83, 140.73]	0.530
DRA-Hood-ULD vs Open-ULD	100.47	61.30	[-12.54, 210.22]	3.26
DRA-Open-AIXR vs DRA-Open-TTI	28.86	53.19	[-70.04, 137.77]	1.29
DRA-Open-AIXR vs DRA-Open-ULD	-109.82	52.36	[-215.70, -9.56]	11.11
DRA-Open-AIXR vs Hood-AIXR	209.99	47.84	[112.79, 298.86]	> 1000
DRA-Open-AIXR vs Hood-TTI	58.36	63.51	[-56.37, 189.54]	2.10
DRA-Open-AIXR vs Hood-ULD	123.69	63.17	[-0.92, 242.85]	9.00
DRA-Open-AIXR vs Open-AIXR	255.03	56.19	[148.51, 368.25]	> 1000
DRA-Open-AIXR vs Open-TTI	241.50	51.29	[142.56, 343.39]	> 1000
DRA-Open-AIXR vs Open-ULD	299.77	63.04	[180.75, 420.52]	> 1000
DRA-Open-TTI vs DRA-Open-ULD	-138.68	52.65	[-248.46, -39.66]	47.27
DRA-Open-TTI vs Hood-AIXR	181.13	49.42	[77.25, 272.71]	310.87
DRA-Open-TTI vs Hood-TTI	29.50	63.67	[-85.35, 166.03]	1.24
DRA-Open-TTI vs Hood-ULD	94.82	64.25	[-30.23, 212.72]	> 1000
DRA-Open-TTI vs Open-AIXR	226.16	57.98	[119.40, 347.49]	> 1000
DRA-Open-TTI vs Open-TTI	212.64	53.25	[111.92, 319.67]	827.50
DRA-Open-TTI vs Open-ULD	270.91	66.16	[144.87, 392.34]	> 1000
DRA-Open-ULD vs Hood-AIXR	319.81	47.51	[223.23, 407.05]	> 1000
DRA-Open-ULD vs Hood-TTI	168.17	63.27	[40.86, 289.99]	51.22
DRA-Open-ULD vs Hood-ULD	233.50	63.76	[113.05, 353.87]	534.21
DRA-Open-ULD vs Open-AIXR	364.84	55.84	[262.96, 480.54]	> 1000

Parameter	Mean	SD	95% CI	BF
DRA-Open-ULD vs Open-TTI	351.32	52.07	[245.37, 449.40]	> 1000
DRA-Open-ULD vs Open-ULD	409.58	65.10	[292.63, 537.36]	> 1000
Hood-AIXR vs Hood-TTI	-151.63	61.89	[-263.92, -15.08]	11.29
Hood-AIXR vs Hood-ULD	-86.31	63.67	[-205.70, 23.84]	2.14
Hood-AIXR vs Open-AIXR	45.04	51.35	[-30.75, 158.70]	1.09
Hood-AIXR vs Open-TTI	31.51	45.30	[-39.51, 139.25]	0.527
Hood-AIXR vs Open-ULD	89.78	62.35	[-18.03, 211.02]	2.41
Hood-TTI vs Hood-ULD	65.33	73.15	[-73.07, 207.01]	1.86
Hood-TTI vs Open-AIXR	196.67	67.69	[63.51, 329.08]	54.93
Hood-TTI vs Open-TTI	183.15	65.15	[51.22, 309.26]	35.40
Hood-TTI vs Open-ULD	241.41	73.13	[100.86, 383.13]	386.49
Hood-ULD vs Open-AIXR	131.34	68.67	[-8.10, 250.92]	7.11
Hood-ULD vs Open-TTI	117.82	65.76	[-7.88, 236.05]	2.80
Hood-ULD vs Open-ULD	176.08	73.82	[27.35, 314.48]	30.00
Open-AIXR vs Open-TTI	-13.52	57.10	[-136.83, 98.28]	0.591
Open-AIXR vs Open-ULD	44.74	65.02	[-81.47, 172.33]	1.49
Open-TTI vs Open-ULD	58.27	65.17	[-57.33, 188.38]	0.826

Figure 6

This section has the BF tables corresponding the Figure 6 in the manuscript.

Table 8. Treatment contrasts for area under the curve. Bayes Factor is used to test pairwise treatment contrasts. This table represents the figure 6B in the manuscript

Parameter	Mean	SD	95% CI	BF
DRA-Hood-AIXR vs DRA-Hood-TTI	8.15	6.47	[-3.91, 21.29]	0.605
DRA-Hood-AIXR vs DRA-Hood-ULD	7.57	6.32	[-3.75, 20.51]	0.615
DRA-Hood-AIXR vs DRA-Open-AIXR	-50.83	6.61	[-63.81, -38.02]	> 1000
DRA-Hood-AIXR vs DRA-Open-TTI	-5.98	5.50	[-16.38, 5.44]	0.474
DRA-Hood-AIXR vs DRA-Open-ULD	-11.53	6.20	[-23.68, 0.16]	1.61
DRA-Hood-AIXR vs Hood-AIXR	-9.79	6.92	[-23.85, 2.94]	0.930
DRA-Hood-AIXR vs Hood-TTI	-5.56	6.35	[-18.71, 6.73]	0.391
DRA-Hood-AIXR vs Hood-ULD	-9.20	6.83	[-23.31, 3.17]	0.983
DRA-Hood-AIXR vs Open-AIXR	-65.79	7.87	[-81.46, -50.03]	> 1000
DRA-Hood-AIXR vs Open-TTI	-18.55	7.86	[-34.12, -4.28]	12.59
DRA-Hood-AIXR vs Open-ULD	-51.21	7.94	[-67.21, -35.70]	> 1000
DRA-Hood-TTI vs DRA-Hood-ULD	-0.58	7.26	[-15.42, 13.16]	0.166
DRA-Hood-TTI vs DRA-Open-AIXR	-58.98	7.30	[-74.22, -45.43]	> 1000
DRA-Hood-TTI vs DRA-Open-TTI	-14.13	6.97	[-27.64, -0.10]	1.31
DRA-Hood-TTI vs DRA-Open-ULD	-19.68	7.30	[-33.93, -5.44]	4.21
DRA-Hood-TTI vs Hood-AIXR	-17.94	8.03	[-33.99, -2.33]	2.41
DRA-Hood-TTI vs Hood-TTI	-13.71	7.82	[-29.19, 1.04]	0.735
DRA-Hood-TTI vs Hood-ULD	-17.35	8.05	[-32.54, -1.96]	2.38
DRA-Hood-TTI vs Open-AIXR	-73.94	8.58	[-91.43, -57.94]	> 1000
DRA-Hood-TTI vs Open-TTI	-26.70	8.59	[-42.28, -8.55]	26.84
DRA-Hood-TTI vs Open-ULD	-59.36	8.59	[-75.66, -42.26]	> 1000
DRA-Hood-ULD vs DRA-Open-AIXR	-58.39	7.34	[-72.77, -44.18]	> 1000
DRA-Hood-ULD vs DRA-Open-TTI	-13.55	6.82	[-26.48, -0.18]	0.895
DRA-Hood-ULD vs DRA-Open-ULD	-19.10	7.07	[-32.45, -4.60]	5.92
DRA-Hood-ULD vs Hood-AIXR	-17.36	7.88	[-31.87, -1.27]	2.12
DRA-Hood-ULD vs Hood-TTI	-13.13	7.88	[-29.07, 1.88]	0.655

Parameter	Mean	SD	95% CI	BF
DRA-Hood-ULD vs Hood-ULD	-16.77	7.76	[-30.91, -1.26]	2.30
DRA-Hood-ULD vs Open-AIXR	-73.36	8.35	[-89.24, -56.45]	> 1000
DRA-Hood-ULD vs Open-TTI	-26.12	8.59	[-43.46, -9.26]	16.34
DRA-Hood-ULD vs Open-ULD	-58.77	8.54	[-75.85, -42.42]	> 1000
DRA-Open-AIXR vs DRA-Open-TTI	44.85	6.97	[31.76, 58.69]	> 1000
DRA-Open-AIXR vs DRA-Open-ULD	39.29	7.34	[24.12, 52.80]	> 1000
DRA-Open-AIXR vs Hood-AIXR	41.04	8.09	[23.42, 55.34]	845.05
DRA-Open-AIXR vs Hood-TTI	45.27	7.96	[27.69, 59.61]	> 1000
DRA-Open-AIXR vs Hood-ULD	41.63	8.05	[25.89, 57.11]	> 1000
DRA-Open-AIXR vs Open-AIXR	-14.96	8.59	[-32.79, 1.12]	0.649
DRA-Open-AIXR vs Open-TTI	32.28	8.50	[15.33, 48.67]	69.52
DRA-Open-AIXR vs Open-ULD	-0.38	8.55	[-16.80, 16.74]	0.157
DRA-Open-TTI vs DRA-Open-ULD	-5.55	6.68	[-18.11, 7.89]	0.178
DRA-Open-TTI vs Hood-AIXR	-3.81	7.57	[-19.14, 9.92]	0.137
DRA-Open-TTI vs Hood-TTI	0.42	7.45	[-14.04, 15.26]	0.136
DRA-Open-TTI vs Hood-ULD	-3.22	7.65	[-18.74, 11.49]	0.216
DRA-Open-TTI vs Open-AIXR	-59.81	8.37	[-76.17, -42.91]	> 1000
DRA-Open-TTI vs Open-TTI	-12.57	8.31	[-28.57, 3.39]	0.493
DRA-Open-TTI vs Open-ULD	-45.23	8.43	[-61.65, -29.14]	> 1000
DRA-Open-ULD vs Hood-AIXR	1.74	7.82	[-13.25, 17.00]	0.167
DRA-Open-ULD vs Hood-TTI	5.97	7.57	[-8.61, 20.91]	0.198
DRA-Open-ULD vs Hood-ULD	2.33	7.85	[-12.58, 17.91]	0.229
DRA-Open-ULD vs Open-AIXR	-54.26	8.55	[-72.07, -38.83]	> 1000
DRA-Open-ULD vs Open-TTI	-7.02	8.43	[-23.39, 9.59]	0.266
DRA-Open-ULD vs Open-ULD	-39.67	8.46	[-56.13, -23.26]	235.20
Hood-AIXR vs Hood-TTI	4.23	8.11	[-11.09, 20.13]	0.143
Hood-AIXR vs Hood-ULD	0.59	8.43	[-16.42, 16.69]	0.192
Hood-AIXR vs Open-AIXR	-56.00	9.17	[-73.39, -38.37]	> 1000
Hood-AIXR vs Open-TTI	-8.76	8.84	[-25.93, 8.44]	0.255
Hood-AIXR vs Open-ULD	-41.42	8.81	[-58.48, -23.90]	171.06
Hood-TTI vs Hood-ULD	-3.64	8.24	[-19.70, 12.48]	0.204
Hood-TTI vs Open-AIXR	-60.23	8.74	[-77.71, -43.38]	> 1000
Hood-TTI vs Open-TTI	-12.99	8.71	[-30.18, 4.14]	0.557
Hood-TTI vs Open-ULD	-45.65	8.69	[-62.48, -28.60]	> 1000
Hood-ULD vs Open-AIXR	-56.59	8.98	[-75.74, -40.10]	> 1000
Hood-ULD vs Open-TTI	-9.35	9.05	[-26.98, 8.48]	0.443
Hood-ULD vs Open-ULD	-42.01	8.86	[-59.38, -24.73]	287.61
Open-AIXR vs Open-TTI	47.24	9.29	[28.97, 65.17]	> 1000
Open-AIXR vs Open-ULD	14.59	9.29	[-2.80, 33.29]	0.445
Open-TTI vs Open-ULD	-32.66	9.26	[-49.69, -13.41]	27.60

References

- Lee M.D. and Wagenmakers E.J. (2014) Bayesian Cognitive Modeling: A Practical Course. Cambridge University Press. ISBN: 9781107018457, 1107018455