

```
1 C:\Users\noam\Anaconda3\python.exe C:/Users/noam/
  PycharmProjects/IBMChallenge/src/DatasetGenerator.py
2 0it [00:00, ?it/s]
3
4 q_0: ┌───┐
5   U3(0,0,0) ┘ M ─
6 c_0: ──────────
7
8 1it [00:00, 2.09it/s]
9
10 q_0: ┌───┐
11   U3(0,0,2pi) ┘ M ─
12 c_0: ──────────
13
14 2it [00:00, 2.07it/s]
15
16 q_0: ┌───┐
17   U3(0,2pi,0) ┘ M ─
18 c_0: ──────────
19
20 3it [00:01, 2.05it/s]
21
22 q_0: ┌───┐
23   U3(0,2pi,2pi) ┘ M ─
24 c_0: ──────────
25
26 4it [00:01, 2.02it/s]
27
28 q_0: ┌───┐
29   U3(2pi,0,0) ┘ M ─
30 c_0: ──────────
31
32 5it [00:02, 2.00it/s]
33
34 q_0: ┌───┐
35   U3(2pi,0,2pi) ┘ M ─
36 c_0: ──────────
37
38 6it [00:03, 1.99it/s]
39
40 q_0: ┌───┐
41   U3(2pi,2pi,0) ┘ M ─
42 c_0: ──────────
43
```

```

44 7it [00:03, 1.97it/s]
45
46 q_0: ┌─────────┐ M ┌─────────┐
        U3(2pi,2pi,2pi)   ┘ ┘
47
48 c_0: ──────────────────
49
50 8it [00:04, 1.97it/s]
51 0it [00:00, ?it/s]
52
53 q_0: ┌─────────┐ M ┌─────────┐
        U3(0,0,0)   ┘ ┘
54
55 c_0: ──────────────────
56
57 1it [00:03, 3.85s/it]
58
59 q_0: ┌─────────┐ M ┌─────────┐
        U3(0,0,pi)   ┘ ┘
60
61 c_0: ──────────────────
62
63 2it [00:05, 3.15s/it]
64
65 q_0: ┌─────────┐ M ┌─────────┐
        U3(0,0,2pi)   ┘ ┘
66
67 c_0: ──────────────────
68
69 3it [00:09, 3.43s/it]
70
71 q_0: ┌─────────┐ M ┌─────────┐
        U3(0,pi,0)   ┘ ┘
72
73 c_0: ──────────────────
74
75 4it [00:10, 2.86s/it]
76
77 q_0: ┌─────────┐ M ┌─────────┐
        U3(0,pi,pi)   ┘ ┘
78
79 c_0: ──────────────────
80
81 5it [00:14, 3.18s/it]
82
83 q_0: ┌─────────┐ M ┌─────────┐
        U3(0,pi,2pi)   ┘ ┘
84
85 c_0: ──────────────────
86
87 6it [00:16, 2.68s/it]

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88
89 q_0: ┌─────────┐ M ┌─────────┐
90   U3(0,2pi,0)   ┘   ┘
91 c_0: ──────────────────
92
93 7it [00:20, 3.04s/it]
94
95 q_0: ┌─────────┐ M ┌─────────┐
96   U3(0,2pi,pi)   ┘   ┘
97 c_0: ──────────────────
98
99 8it [00:21, 2.60s/it]
100
101 q_0: ┌─────────┐ M ┌─────────┐
102   U3(0,2pi,2pi)   ┘   ┘
103 c_0: ──────────────────
104
105 9it [00:27, 3.53s/it]
106
107 q_0: ┌─────────┐ M ┌─────────┐
108   U3(pi,0,0)   ┘   ┘
109 c_0: ──────────────────
110
111 10it [00:29, 2.98s/it]
112
113 q_0: ┌─────────┐ M ┌─────────┐
114   U3(pi,0,pi)   ┘   ┘
115 c_0: ──────────────────
116
117 11it [00:30, 2.55s/it]
118
119 q_0: ┌─────────┐ M ┌─────────┐
120   U3(pi,0,2pi)   ┘   ┘
121 c_0: ──────────────────
122
123 12it [00:32, 2.24s/it]
124
125 q_0: ┌─────────┐ M ┌─────────┐
126   U3(pi,pi,0)   ┘   ┘
127 c_0: ──────────────────
128
129
130
131 q_0: ┌─────────┐ M ┌─────────┐

```

```
132
133 c_0: _____
134
135 14it [00:35, 1.87s/it]
136
137 q_0: ┌─────────┐ M ──┐
138   U3(pi,pi,2pi) ──┘
139 c_0: _____
140
141 15it [00:36, 1.76s/it]
142
143 q_0: ┌─────────┐ M ──┐
144   U3(pi,2pi,0) ──┘
145 c_0: _____
146
147 16it [00:38, 1.67s/it]
148
149 q_0: ┌─────────┐ M ──┐
150   U3(pi,2pi,pi) ──┘
151 c_0: _____
152
153 17it [00:39, 1.62s/it]
154
155 q_0: ┌─────────┐ M ──┐
156   U3(pi,2pi,2pi) ──┘
157 c_0: _____
158
159 18it [00:41, 1.58s/it]
160
161 q_0: ┌─────────┐ M ──┐
162   U3(2pi,0,0) ──┘
163 c_0: _____
164
165 19it [00:45, 2.27s/it]
166
167 q_0: ┌─────────┐ M ──┐
168   U3(2pi,0,pi) ──┘
169 c_0: _____
170
171 20it [00:46, 2.07s/it]
172
173 q_0: ┌─────────┐ M ──┐
174   U3(2pi,0,2pi) ──┘
175 c_0: _____
```

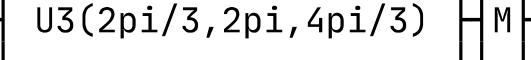
```
176
177 21it [00:50, 2.60s/it]
178
179 q_0: ┌─────────┐ M
180   └─────────┘
181 c_0: ──────────
182
183 22it [00:52, 2.28s/it]
184
185 q_0: ┌─────────┐ M
186   └─────────┘
187 c_0: ──────────
188
189 23it [00:56, 2.76s/it]
190
191 q_0: ┌─────────┐ M
192   └─────────┘
193 c_0: ──────────
194
195
196
197 q_0: ┌─────────┐ M
198   └─────────┘
199 c_0: ──────────
200
201 25it [01:01, 2.87s/it]
202
203 q_0: ┌─────────┐ M
204   └─────────┘
205 c_0: ──────────
206
207
208
209 q_0: ┌─────────┐ M
210   └─────────┘
211 c_0: ──────────
212
213 27it [01:07, 2.48s/it]
214 0it [00:00, ?it/s]
215
216 q_0: ┌─────────┐ M
217   └─────────┘
218 c_0: ──────────
219
```

```
220 1it [00:18, 18.20s/it]
221
222 q_0: ┌─────────┐ M ┌─────────┐
223   U3(0,0,2pi/3) ┘   ┘
224 c_0: ──────────────────
225
226 2it [00:24, 14.66s/it]
227
228 q_0: ┌─────────┐ M ┌─────────┐
229   U3(0,0,4pi/3) ┘   ┘
230 c_0: ──────────────────
231
232 3it [00:30, 12.15s/it]
233
234 q_0: ┌─────────┐ M ┌─────────┐
235   U3(0,0,2pi) ┘   ┘
236 c_0: ──────────────────
237
238 4it [00:48, 13.91s/it]
239
240 q_0: ┌─────────┐ M ┌─────────┐
241   U3(0,2pi/3,0) ┘   ┘
242 c_0: ──────────────────
243
244 5it [00:55, 11.77s/it]
245
246 q_0: ┌─────────┐ M ┌─────────┐
247   U3(0,2pi/3,2pi/3) ┘   ┘
248 c_0: ──────────────────
249
250
251
252 q_0: ┌─────────┐ M ┌─────────┐
253   U3(0,2pi/3,4pi/3) ┘   ┘
254 c_0: ──────────────────
255
256 7it [01:20, 12.58s/it]
257
258 q_0: ┌─────────┐ M ┌─────────┐
259   U3(0,2pi/3,2pi) ┘   ┘
260 c_0: ──────────────────
261
262 8it [01:26, 10.74s/it]
263 ┌─────────┐ ┌─────────┐
```

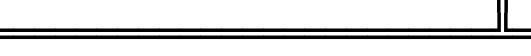
```
264 q_0: ┌ U3(0,4pi/3,0) ┘ M ┌
265   └─────────────────┘ └─┐
266 c_0: ────────────────── └─┐
267
268 9it [01:33, 9.39s/it]
269
270 q_0: ┌ U3(0,4pi/3,2pi/3) ┘ M ┌
271   └─────────────────┘ └─┐
272 c_0: ────────────────── └─┐
273
274 10it [01:50, 11.83s/it]
275
276 q_0: ┌ U3(0,4pi/3,4pi/3) ┘ M ┌
277   └─────────────────┘ └─┐
278 c_0: ────────────────── └─┐
279
280
281
282 q_0: ┌ U3(0,4pi/3,2pi) ┘ M ┌
283   └─────────────────┘ └─┐
284 c_0: ────────────────── └─┐
285
286 12it [02:03, 9.09s/it]
287
288 q_0: ┌ U3(0,2pi,0) ┘ M ┌
289   └─────────────────┘ └─┐
290 c_0: ────────────────── └─┐
291
292 13it [02:21, 11.69s/it]
293
294 q_0: ┌ U3(0,2pi,2pi/3) ┘ M ┌
295   └─────────────────┘ └─┐
296 c_0: ────────────────── └─┐
297
298 14it [02:27, 10.18s/it]
299
300 q_0: ┌ U3(0,2pi,4pi/3) ┘ M ┌
301   └─────────────────┘ └─┐
302 c_0: ────────────────── └─┐
303
304 15it [02:34, 9.13s/it]
305
306 q_0: ┌ U3(0,2pi,2pi) ┘ M ┌
307   └─────────────────┘ └─┐
```

```
308 c_0: ======I
309
310 16it [02:52, 11.73s/it]
311
312 q_0: ┌ U3(2pi/3,0,0) ┘ M ┌
313   └─────────────────┘
314 c_0: ======I
315
316 17it [02:59, 10.40s/it]
317
318 q_0: ┌ U3(2pi/3,0,2pi/3) ┘ M ┌
319   └─────────────────┘
320 c_0: ======I
321
322 18it [03:06, 9.41s/it]
323
324 q_0: ┌ U3(2pi/3,0,4pi/3) ┘ M ┌
325   └─────────────────┘
326 c_0: ======I
327
328 19it [03:13, 8.70s/it]
329
330 q_0: ┌ U3(2pi/3,0,2pi) ┘ M ┌
331   └─────────────────┘
332 c_0: ======I
333
334 20it [03:20, 8.17s/it]
335
336 q_0: ┌ U3(2pi/3,2pi/3,0) ┘ M ┌
337   └─────────────────┘
338 c_0: ======I
339
340 21it [03:27, 7.78s/it]
341
342 q_0: ┌ U3(2pi/3,2pi/3,2pi/3) ┘ M ┌
343   └─────────────────┘
344 c_0: ======I
345
346 22it [03:34, 7.50s/it]
347
348 q_0: ┌ U3(2pi/3,2pi/3,4pi/3) ┘ M ┌
349   └─────────────────┘
350 c_0: ======I
351
```

```
352 23it [03:41, 7.34s/it]
353
354 q_0: ┌─────────┐ H M ┌─────────┐
355   U3(2pi/3,2pi/3,2pi) ┘ ┘ ┘ ┘
356 c_0: ──────────────────
357
358
359
360 q_0: ┌─────────┐ H M ┌─────────┐
361   U3(2pi/3,4pi/3,0) ┘ ┘ ┘ ┘
362 c_0: ──────────────────
363
364 25it [03:55, 7.16s/it]
365
366 q_0: ┌─────────┐ H M ┌─────────┐
367   U3(2pi/3,4pi/3,2pi/3) ┘ ┘ ┘ ┘
368 c_0: ──────────────────
369
370 26it [04:02, 7.14s/it]
371
372 q_0: ┌─────────┐ H M ┌─────────┐
373   U3(2pi/3,4pi/3,4pi/3) ┘ ┘ ┘ ┘
374 c_0: ──────────────────
375
376 27it [04:09, 7.19s/it]
377
378 q_0: ┌─────────┐ H M ┌─────────┐
379   U3(2pi/3,4pi/3,2pi) ┘ ┘ ┘ ┘
380 c_0: ──────────────────
381
382 28it [04:16, 7.17s/it]
383
384 q_0: ┌─────────┐ H M ┌─────────┐
385   U3(2pi/3,2pi,0) ┘ ┘ ┘ ┘
386 c_0: ──────────────────
387
388 29it [04:24, 7.23s/it]
389
390 q_0: ┌─────────┐ H M ┌─────────┐
391   U3(2pi/3,2pi,2pi/3) ┘ ┘ ┘ ┘
392 c_0: ──────────────────
393
394 30it [04:31, 7.29s/it]
395 ┌─────────┐ ┌─────────┐
```

396 q_0: 

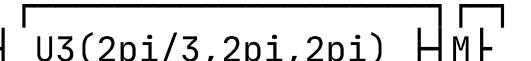
397

398 c_0: 

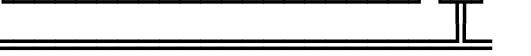
399

400 31it [04:39, 7.39s/it]

401

402 q_0: 

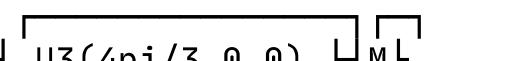
403

404 c_0: 

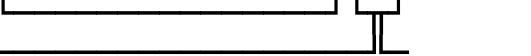
405

406 32it [04:46, 7.44s/it]

407

408 q_0: 

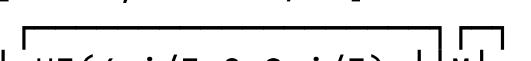
409

410 c_0: 

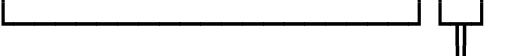
411

412 33it [04:54, 7.44s/it]

413

414 q_0: 

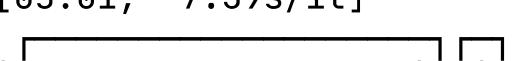
415

416 c_0: 

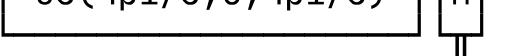
417

418 34it [05:01, 7.39s/it]

419

420 q_0: 

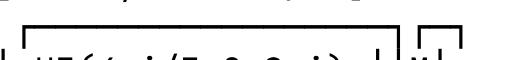
421

422 c_0: 

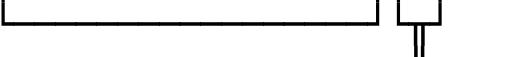
423

424 35it [05:08, 7.37s/it]

425

426 q_0: 

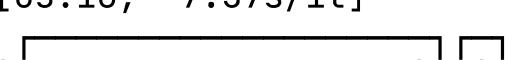
427

428 c_0: 

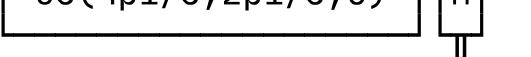
429

430 36it [05:16, 7.37s/it]

431

432 q_0: 

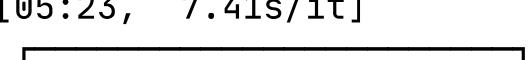
433

434 c_0: 

435

436 37it [05:23, 7.41s/it]

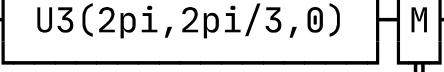
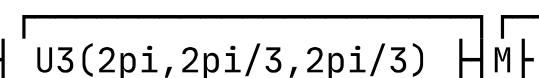
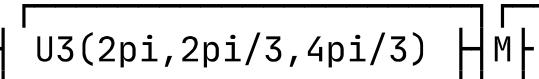
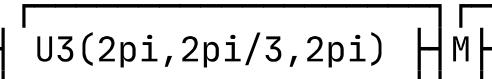
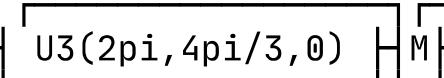
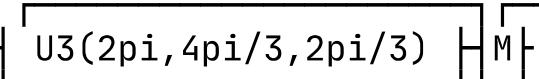
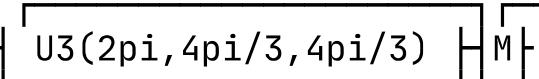
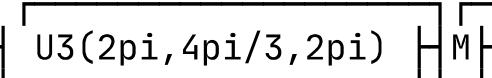
437

438 q_0: 

439

```
440 c_0: ======I
441
442 38it [05:31, 7.40s/it]
443
444 q_0: ┌── U3(4pi/3,2pi/3,4pi/3) ┘ M ┌─
445
446 c_0: ======I
447
448 39it [05:38, 7.41s/it]
449
450 q_0: ┌── U3(4pi/3,2pi/3,2pi) ┘ M ┌─
451
452 c_0: ======I
453
454 40it [05:46, 7.42s/it]
455
456 q_0: ┌── U3(4pi/3,4pi/3,0) ┘ M ┌─
457
458 c_0: ======I
459
460 41it [05:53, 7.45s/it]
461
462 q_0: ┌── U3(4pi/3,4pi/3,2pi/3) ┘ M ┌─
463
464 c_0: ======I
465
466 42it [06:01, 7.48s/it]
467
468 q_0: ┌── U3(4pi/3,4pi/3,4pi/3) ┘ M ┌─
469
470 c_0: ======I
471
472 43it [06:08, 7.55s/it]
473
474 q_0: ┌── U3(4pi/3,4pi/3,2pi) ┘ M ┌─
475
476 c_0: ======I
477
478 44it [06:16, 7.56s/it]
479
480 q_0: ┌── U3(4pi/3,2pi,0) ┘ M ┌─
481
482 c_0: ======I
483
```

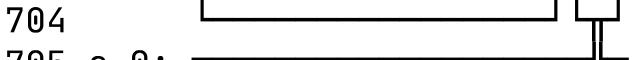
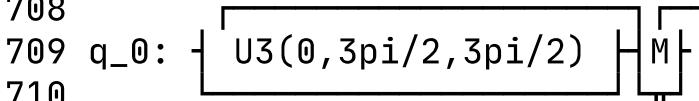
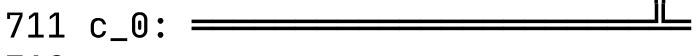
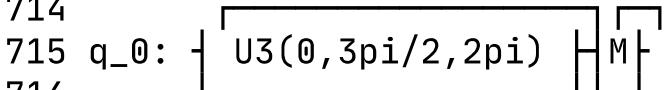
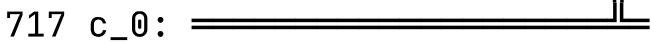
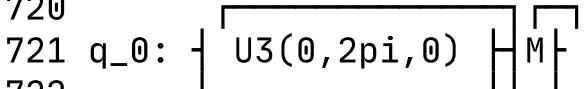
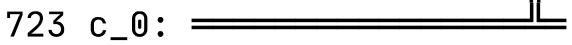
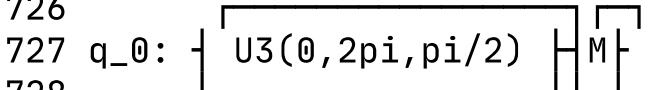
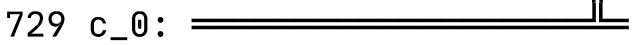
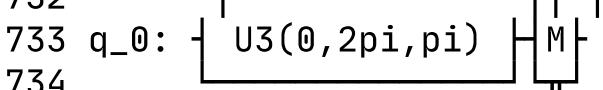
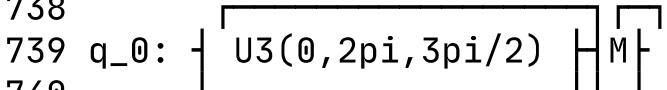
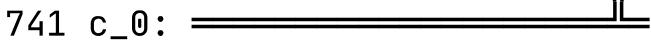
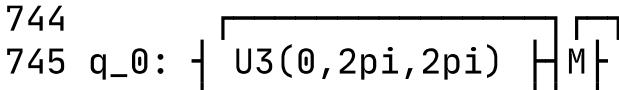
```
484 45it [06:24, 7.57s/it]
485
486 q_0: ┌─────────┐ M ┌─────────┐
        U3(4pi/3,2pi,2pi/3) ┘ ┘
487
488 c_0: ──────────────────
489
490 46it [06:31, 7.61s/it]
491
492 q_0: ┌─────────┐ M ┌─────────┐
        U3(4pi/3,2pi,4pi/3) ┘ ┘
493
494 c_0: ──────────────────
495
496 47it [06:39, 7.66s/it]
497
498 q_0: ┌─────────┐ M ┌─────────┐
        U3(4pi/3,2pi,2pi) ┘ ┘
499
500 c_0: ──────────────────
501
502 48it [06:47, 7.68s/it]
503
504 q_0: ┌─────────┐ M ┌─────────┐
        U3(2pi,0,0) ┘ ┘
505
506 c_0: ──────────────────
507
508 49it [07:06, 11.15s/it]
509
510 q_0: ┌─────────┐ M ┌─────────┐
        U3(2pi,0,2pi/3) ┘ ┘
511
512 c_0: ──────────────────
513
514 50it [07:14, 10.16s/it]
515
516 q_0: ┌─────────┐ M ┌─────────┐
        U3(2pi,0,4pi/3) ┘ ┘
517
518 c_0: ──────────────────
519
520 51it [07:22, 9.44s/it]
521
522 q_0: ┌─────────┐ M ┌─────────┐
        U3(2pi,0,2pi) ┘ ┘
523
524 c_0: ──────────────────
525
526 52it [07:41, 12.53s/it]
527
```

528 q_0:  M
529
530 c_0: 
531
532 53it [07:49, 11.16s/it]
533
534 q_0:  M
535
536 c_0: 
537
538 54it [07:57, 10.15s/it]
539
540 q_0:  M
541
542 c_0: 
543
544 55it [08:17, 13.16s/it]
545
546 q_0:  M
547
548 c_0: 
549
550 56it [08:25, 11.68s/it]
551
552 q_0:  M
553
554 c_0: 
555
556 57it [08:34, 10.60s/it]
557
558 q_0:  M
559
560 c_0: 
561
562 58it [08:55, 13.75s/it]
563
564 q_0:  M
565
566 c_0: 
567
568 59it [09:16, 15.93s/it]
569
570 q_0:  M
571

```
572 c_0: =====L
573
574 60it [09:36, 17.23s/it]
575
576 q_0: ┌── U3(2pi,2pi,0) ┘ M ┌─┐
577   └─────────────────────────┘
578 c_0: =====L
579
580 61it [09:58, 18.71s/it]
581
582 q_0: ┌── U3(2pi,2pi,2pi/3) ┘ M ┌─┐
583   └─────────────────────────┘
584 c_0: =====L
585
586 62it [10:06, 15.56s/it]
587
588 q_0: ┌── U3(2pi,2pi,4pi/3) ┘ M ┌─┐
589   └─────────────────────────┘
590 c_0: =====L
591
592 63it [10:15, 13.36s/it]
593
594 q_0: ┌── U3(2pi,2pi,2pi) ┘ M ┌─┐
595   └─────────────────────────┘
596 c_0: =====L
597
598 64it [10:36, 9.94s/it]
599
600
601 q_0: ┌── U3(0,0,0) ┘ M ┌─┐
602   └─────────────────────────┘
603 c_0: =====L
604
605 1it [00:55, 55.93s/it]
606
607 q_0: ┌── U3(0,0,pi/2) ┘ M ┌─┐
608   └─────────────────────────┘
609 c_0: =====L
610
611 2it [01:14, 44.85s/it]
612
613 q_0: ┌── U3(0,0,pi) ┘ M ┌─┐
614   └─────────────────────────┘
615 c_0: =====L
```

```
616
617 3it [01:34, 37.12s/it]
618
619 q_0: ┌─────────┐ M
       | U3(0,0,3pi/2) ┘
620
621 c_0: ──────────────────
622
623
624
625 q_0: ┌─────────┐ M
       | U3(0,0,2pi) ┘
626
627 c_0: ──────────────────
628
629 5it [02:52, 40.01s/it]
630
631 q_0: ┌─────────┐ M
       | U3(0,pi/2,0) ┘
632
633 c_0: ──────────────────
634
635 6it [03:23, 37.18s/it]
636
637 q_0: ┌─────────┐ M
       | U3(0,pi/2,pi/2) ┘
638
639 c_0: ──────────────────
640
641 7it [03:44, 32.34s/it]
642
643 q_0: ┌─────────┐ M
       | U3(0,pi/2,pi) ┘
644
645 c_0: ──────────────────
646
647 8it [04:06, 29.29s/it]
648
649 q_0: ┌─────────┐ M
       | U3(0,pi/2,3pi/2) ┘
650
651 c_0: ──────────────────
652
653 9it [05:06, 38.52s/it]
654
655 q_0: ┌─────────┐ M
       | U3(0,pi/2,2pi) ┘
656
657 c_0: ──────────────────
658
659
```

```
660
661 q_0: ┌─────────┐ M ┌─────────┐
662   ┘ U3(0, pi, 0) ┘ ┘
663 c_0: ──────────────────
664
665 11it [05:50, 30.07s/it]
666
667 q_0: ┌─────────┐ M ┌─────────┐
668   ┘ U3(0, pi, pi/2) ┘ ┘
669 c_0: ──────────────────
670
671
672
673 q_0: ┌─────────┐ M ┌─────────┐
674   ┘ U3(0, pi, pi) ┘ ┘
675 c_0: ──────────────────
676
677 13it [07:15, 38.14s/it]
678
679 q_0: ┌─────────┐ M ┌─────────┐
680   ┘ U3(0, pi, 3pi/2) ┘ ┘
681 c_0: ──────────────────
682
683 14it [07:38, 33.59s/it]
684
685 q_0: ┌─────────┐ M ┌─────────┐
686   ┘ U3(0, pi, 2pi) ┘ ┘
687 c_0: ──────────────────
688
689
690
691 q_0: ┌─────────┐ M ┌─────────┐
692   ┘ U3(0, 3pi/2, 0) ┘ ┘
693 c_0: ──────────────────
694
695 16it [08:33, 30.88s/it]
696
697 q_0: ┌─────────┐ M ┌─────────┐
698   ┘ U3(0, 3pi/2, pi/2) ┘ ┘
699 c_0: ──────────────────
700
701 17it [09:45, 43.19s/it]
702
703 q_0: ┌─────────┐ M ┌─────────┐
```

704
705 c_0: 
706
707 18it [10:33, 44.60s/it]
708
709 q_0: 
710
711 c_0: 
712
713 19it [10:57, 38.62s/it]
714
715 q_0: 
716
717 c_0: 
718
719 20it [11:22, 34.51s/it]
720
721 q_0: 
722
723 c_0: 
724
725 21it [12:30, 44.55s/it]
726
727 q_0: 
728
729 c_0: 
730
731 22it [12:56, 38.87s/it]
732
733 q_0: 
734
735 c_0: 
736
737 23it [13:22, 34.93s/it]
738
739 q_0: 
740
741 c_0: 
742
743 24it [14:04, 37.12s/it]
744
745 q_0: 
746
747 c_0: 

```
748
749 25it [15:21, 49.18s/it]
750
751 q_0: ┌─────────┐ M
    └─────────┘
752
753 c_0: ──────────
754
755 26it [15:56, 44.97s/it]
756
757 q_0: ┌─────────┐ M
    └─────────┘
758
759 c_0: ──────────
760
761 27it [16:24, 39.71s/it]
762
763 q_0: ┌─────────┐ M
    └─────────┘
764
765 c_0: ──────────
766
767 28it [16:52, 36.13s/it]
768
769 q_0: ┌─────────┐ M
    └─────────┘
770
771 c_0: ──────────
772
773 29it [17:20, 33.67s/it]
774
775 q_0: ┌─────────┐ M
    └─────────┘
776
777 c_0: ──────────
778
779
780
781 q_0: ┌─────────┐ M
    └─────────┘
782
783 c_0: ──────────
784
785 31it [18:16, 31.02s/it]
786
787 q_0: ┌─────────┐ M
    └─────────┘
788
789 c_0: ──────────
790
791
```

```
792
793 q_0: ┌─────────┐ M ┌─────────┐
794   U3(pi/2,pi/2,pi) ┘ ┘
795 c_0: ──────────────────
796
797 33it [19:58, 42.68s/it]
798
799 q_0: ┌─────────┐ M ┌─────────┐
800   U3(pi/2,pi/2,3pi/2) ┘ ┘
801 c_0: ──────────────────
802
803 34it [21:13, 52.53s/it]
804
805 q_0: ┌─────────┐ M ┌─────────┐
806   U3(pi/2,pi/2,2pi) ┘ ┘
807 c_0: ──────────────────
808
809 35it [22:26, 58.45s/it]
810
811 q_0: ┌─────────┐ M ┌─────────┐
812   U3(pi/2,pi,0) ┘ ┘
813 c_0: ──────────────────
814
815 36it [23:41, 63.49s/it]
816
817 q_0: ┌─────────┐ M ┌─────────┐
818   U3(pi/2,pi,pi/2) ┘ ┘
819 c_0: ──────────────────
820
821 37it [24:54, 66.28s/it]
822
823 q_0: ┌─────────┐ M ┌─────────┐
824   U3(pi/2,pi,pi) ┘ ┘
825 c_0: ──────────────────
826
827 38it [25:51, 63.43s/it]
828
829 q_0: ┌─────────┐ M ┌─────────┐
830   U3(pi/2,pi,3pi/2) ┘ ┘
831 c_0: ──────────────────
832
833 39it [26:25, 54.64s/it]
834
835 q_0: ┌─────────┐ M ┌─────────┐
```

```
836
837 c_0: ━━━━━━
838
839 40it [27:02, 49.46s/it]
840
841 q_0: ━━━━━━ U3(pi/2,3pi/2,0) ━━━━ M ━━━━
842
843 c_0: ━━━━━━
844
845 41it [27:34, 44.14s/it]
846
847 q_0: ━━━━━━ U3(pi/2,3pi/2,pi/2) ━━━━ M ━━━━
848
849 c_0: ━━━━━━
850
851 42it [28:06, 40.47s/it]
852
853 q_0: ━━━━━━ U3(pi/2,3pi/2,pi) ━━━━ M ━━━━
854
855 c_0: ━━━━━━
856
857 43it [28:38, 37.94s/it]
858
859 q_0: ━━━━━━ U3(pi/2,3pi/2,3pi/2) ━━━━ M ━━━━
860
861 c_0: ━━━━━━
862
863 44it [29:10, 36.26s/it]
864
865 q_0: ━━━━━━ U3(pi/2,3pi/2,2pi) ━━━━ M ━━━━
866
867 c_0: ━━━━━━
868
869 45it [29:42, 35.11s/it]
870
871 q_0: ━━━━━━ U3(pi/2,2pi,0) ━━━━ M ━━━━
872
873 c_0: ━━━━━━
874
875
876
877 q_0: ━━━━━━ U3(pi/2,2pi,pi/2) ━━━━ M ━━━━
878
879 c_0: ━━━━━━
```

```
880
881 47it [30:50, 34.48s/it]
882
883 q_0: ┌─────────┐ M ┌─────────┐
884   └─────────┘   └─────────┘
885 c_0: ──────────────────
886
887
888
889 q_0: ┌─────────┐ M ┌─────────┐
890   └─────────┘   └─────────┘
891 c_0: ──────────────────
892
893 49it [32:01, 34.99s/it]
894
895 q_0: ┌─────────┐ M ┌─────────┐
896   └─────────┘   └─────────┘
897 c_0: ──────────────────
898
899 50it [32:36, 35.12s/it]
900
901 q_0: ┌─────────┐ M ┌─────────┐
902   └─────────┘   └─────────┘
903 c_0: ──────────────────
904
905 51it [33:12, 35.21s/it]
906
907 q_0: ┌─────────┐ M ┌─────────┐
908   └─────────┘   └─────────┘
909 c_0: ──────────────────
910
911 52it [33:48, 35.48s/it]
912
913 q_0: ┌─────────┐ M ┌─────────┐
914   └─────────┘   └─────────┘
915 c_0: ──────────────────
916
917 53it [34:25, 36.07s/it]
918
919 q_0: ┌─────────┐ M ┌─────────┐
920   └─────────┘   └─────────┘
921 c_0: ──────────────────
922
923 54it [35:02, 36.29s/it]
```

```
924
925 q_0: ┌─────────┐ M ┌─────────┐
926   U3(pi,0,2pi) ┘   ┘
927 c_0: ──────────────────
928
929 55it [35:39, 36.50s/it]
930
931 q_0: ┌─────────┐ M ┌─────────┐
932   U3(pi,pi/2,0) ┘   ┘
933 c_0: ──────────────────
934
935 56it [49:53, 281.72s/it]
936
937 q_0: ┌─────────┐ M ┌─────────┐
938   U3(pi,pi/2,pi/2) ┘   ┘
939 c_0: ──────────────────
940
941 57it [50:35, 209.81s/it]
942
943 q_0: ┌─────────┐ M ┌─────────┐
944   U3(pi,pi/2,pi) ┘   ┘
945 c_0: ──────────────────
946
947 58it [51:12, 157.90s/it]
948
949 q_0: ┌─────────┐ M ┌─────────┐
950   U3(pi,pi/2,3pi/2) ┘   ┘
951 c_0: ──────────────────
952
953
954
955 q_0: ┌─────────┐ M ┌─────────┐
956   U3(pi,pi/2,2pi) ┘   ┘
957 c_0: ──────────────────
958
959 60it [52:27, 96.48s/it]
960
961 q_0: ┌─────────┐ M ┌─────────┐
962   U3(pi,pi,0) ┘   ┘
963 c_0: ──────────────────
964
965 61it [53:04, 78.89s/it]
966
967 q_0: ┌─────────┐ M ┌─────────┐
```

```
968
969 c_0: ━━━━
970
971 62it [53:43, 66.70s/it]
972
973 q_0: ┌─────────┐ M ─
| U3(pi,pi,pi) |
974 └─────────┘
975 c_0: ━━━━
976
977 63it [54:21, 58.27s/it]
978
979 q_0: ┌─────────┐ M ─
| U3(pi,pi,3pi/2) |
980 └─────────┘
981 c_0: ━━━━
982
983 64it [55:03, 53.14s/it]
984
985 q_0: ┌─────────┐ M ─
| U3(pi,pi,2pi) |
986 └─────────┘
987 c_0: ━━━━
988
989
990
991 q_0: ┌─────────┐ M ─
| U3(pi,3pi/2,0) |
992 └─────────┘
993 c_0: ━━━━
994
995 66it [56:25, 46.98s/it]
996
997 q_0: ┌─────────┐ M ─
| U3(pi,3pi/2,pi/2) |
998 └─────────┘
999 c_0: ━━━━
1000
1001 67it [57:04, 44.70s/it]
1002
1003 q_0: ┌─────────┐ M ─
| U3(pi,3pi/2,pi) |
1004 └─────────┘
1005 c_0: ━━━━
1006
1007 68it [57:44, 43.25s/it]
1008
1009 q_0: ┌─────────┐ M ─
| U3(pi,3pi/2,3pi/2) |
1010 └─────────┘
1011 c_0: ━━━━
```

```
1012
1013 69it [58:24, 42.32s/it]
1014
1015 q_0: ┌─────────┐ M ┌─────────┐
          U3(pi,3pi/2,2pi)   └───┘
1016
1017 c_0: ──────────────────
1018
1019 70it [59:05, 41.99s/it]
1020
1021 q_0: ┌─────────┐ M ┌─────────┐
          U3(pi,2pi,0)   └───┘
1022
1023 c_0: ──────────────────
1024
1025 71it [59:48, 42.12s/it]
1026
1027 q_0: ┌─────────┐ M ┌─────────┐
          U3(pi,2pi,pi/2)   └───┘
1028
1029 c_0: ──────────────────
1030
1031 72it [1:00:31, 42.32s/it]
1032
1033 q_0: ┌─────────┐ M ┌─────────┐
          U3(pi,2pi,pi)   └───┘
1034
1035 c_0: ──────────────────
1036
1037 73it [1:01:13, 42.16s/it]
1038
1039 q_0: ┌─────────┐ M ┌─────────┐
          U3(pi,2pi,3pi/2)   └───┘
1040
1041 c_0: ──────────────────
1042
1043 74it [1:01:56, 42.42s/it]
1044
1045 q_0: ┌─────────┐ M ┌─────────┐
          U3(pi,2pi,2pi)   └───┘
1046
1047 c_0: ──────────────────
1048
1049
1050
1051 q_0: ┌─────────┐ M ┌─────────┐
          U3(3pi/2,0,0)   └───┘
1052
1053 c_0: ──────────────────
1054
1055 76it [1:03:24, 43.30s/it]
```

```
1056
1057 q_0: ┌─────────┐ M ┌─────────┐
1058   U3(3pi/2,0,pi/2) ┘ ┘
1059 c_0: ──────────────────
1060
1061 77it [1:04:07, 43.32s/it]
1062
1063 q_0: ┌─────────┐ M ┌─────────┐
1064   U3(3pi/2,0,pi) ┘ ┘
1065 c_0: ──────────────────
1066
1067 78it [1:04:50, 43.20s/it]
1068
1069 q_0: ┌─────────┐ M ┌─────────┐
1070   U3(3pi/2,0,3pi/2) ┘ ┘
1071 c_0: ──────────────────
1072
1073 79it [1:05:33, 43.19s/it]
1074
1075 q_0: ┌─────────┐ M ┌─────────┐
1076   U3(3pi/2,0,2pi) ┘ ┘
1077 c_0: ──────────────────
1078
1079 80it [1:06:17, 43.22s/it]
1080
1081 q_0: ┌─────────┐ M ┌─────────┐
1082   U3(3pi/2,pi/2,0) ┘ ┘
1083 c_0: ──────────────────
1084
1085 81it [1:07:02, 44.00s/it]
1086
1087 q_0: ┌─────────┐ M ┌─────────┐
1088   U3(3pi/2,pi/2,pi/2) ┘ ┘
1089 c_0: ──────────────────
1090
1091 82it [1:07:49, 44.67s/it]
1092
1093 q_0: ┌─────────┐ M ┌─────────┐
1094   U3(3pi/2,pi/2,pi) ┘ ┘
1095 c_0: ──────────────────
1096
1097 83it [1:08:34, 44.89s/it]
1098
1099 q_0: ┌─────────┐ M ┌─────────┐
```

1100

1101 c_0: =

1102

1103

1104

1105 q_0: = U3(3pi/2, pi/2, 2pi) M

1106

1107 c_0: =

1108

1109 85it [1:10:08, 45.94s/it]

1110

1111 q_0: = U3(3pi/2, pi, 0) M

1112

1113 c_0: =

1114

1115 86it [1:10:59, 47.41s/it]

1116

1117 q_0: = U3(3pi/2, pi, pi/2) M

1118

1119 c_0: =

1120

1121 87it [1:11:45, 47.16s/it]

1122

1123 q_0: = U3(3pi/2, pi, pi) M

1124

1125 c_0: =

1126

1127 88it [1:12:31, 46.74s/it]

1128

1129 q_0: = U3(3pi/2, pi, 3pi/2) M

1130

1131 c_0: =

1132

1133

1134

1135 q_0: = U3(3pi/2, pi, 2pi) M

1136

1137 c_0: =

1138

1139 90it [1:14:03, 46.43s/it]

1140

1141 q_0: = U3(3pi/2, 3pi/2, 0) M

1142

1143 c_0: =

```

1144
1145 91it [1:14:50, 46.43s/it]
1146
1147 q_0: ┌─────────┐ M ┌─────────┐
1148   └─────────┘   └─────────┘
1149 c_0: ━━━━━━
1150
1151 92it [1:15:38, 47.09s/it]
1152
1153 q_0: ┌─────────┐ M ┌─────────┐
1154   └─────────┘   └─────────┘
1155 c_0: ━━━━━━
1156
1157 93it [1:16:27, 47.63s/it]
1158
1159 q_0: ┌─────────┐ M ┌─────────┐
1160   └─────────┘   └─────────┘
1161 c_0: ━━━━━━
1162
1163
1164
1165 q_0: ┌─────────┐ M ┌─────────┐
1166   └─────────┘   └─────────┘
1167 c_0: ━━━━━━
1168
1169 95it [1:18:02, 47.45s/it]
1170
1171 q_0: ┌─────────┐ M ┌─────────┐
1172   └─────────┘   └─────────┘
1173 c_0: ━━━━━━
1174
1175
1176
1177 96it [1:18:49, 47.36s/it] q_0: ┌─────────┐ U3(3pi/2,2pi,pi/2)
1178   ) M ┌─────────┐
1179 c_0: ━━━━━━
1180
1181 97it [1:19:36, 47.36s/it]
1182
1183 q_0: ┌─────────┐ M ┌─────────┐
1184   └─────────┘   └─────────┘
1185 c_0: ━━━━━━
1186

```

```
1187 98it [1:20:25, 47.61s/it]
1188
1189 q_0: ┌─────────┐ M ┌─────────┐
1190   U3(3pi/2,2pi,3pi/2) ┘ ┘
1191 c_0: ──────────────────
1192
1193 99it [1:21:14, 48.14s/it]
1194
1195 q_0: ┌─────────┐ M ┌─────────┐
1196   U3(3pi/2,2pi,2pi) ┘ ┘
1197 c_0: ──────────────────
1198
1199 100it [1:22:04, 48.58s/it]
1200
1201 q_0: ┌─────────┐ M ┌─────────┐
1202   U3(2pi,0,0) ┘ ┘
1203 c_0: ──────────────────
1204
1205 101it [1:24:02, 69.43s/it]
1206
1207 q_0: ┌─────────┐ M ┌─────────┐
1208   U3(2pi,0,pi/2) ┘ ┘
1209 c_0: ──────────────────
1210
1211
1212
1213 q_0: ┌─────────┐ M ┌─────────┐
1214   U3(2pi,0,pi) ┘ ┘
1215 c_0: ──────────────────
1216
1217 103it [1:25:40, 59.20s/it]
1218
1219 q_0: ┌─────────┐ M ┌─────────┐
1220   U3(2pi,0,3pi/2) ┘ ┘
1221 c_0: ──────────────────
1222
1223
1224
1225 q_0: ┌─────────┐ M ┌─────────┐
1226   U3(2pi,0,2pi) ┘ ┘
1227 c_0: ──────────────────
1228
1229 105it [1:28:18, 71.69s/it]
1230 ┌─────────┐ └─────────┘
```

```
1231 q_0: ┌ U3(2pi,pi/2,0) ┘ M ┌
1232 └─────────────────────────┘
1233 c_0: ┌─────────────────┐
1234
1235 106it [1:29:09, 65.59s/it]
1236
1237 q_0: ┌ U3(2pi,pi/2,pi/2) ┘ M ┌
1238 └─────────────────────────┘
1239 c_0: ┌─────────────────┐
1240
1241 107it [1:30:01, 61.46s/it]
1242
1243 q_0: ┌ U3(2pi,pi/2,pi) ┘ M ┌
1244 └─────────────────────────┘
1245 c_0: ┌─────────────────┐
1246
1247 108it [1:30:53, 58.61s/it]
1248
1249 q_0: ┌ U3(2pi,pi/2,3pi/2) ┘ M ┌
1250 └─────────────────────────┘
1251 c_0: ┌─────────────────┐
1252
1253 109it [1:32:44, 74.40s/it]
1254
1255 q_0: ┌ U3(2pi,pi/2,2pi) ┘ M ┌
1256 └─────────────────────────┘
1257 c_0: ┌─────────────────┐
1258
1259 110it [1:33:36, 67.78s/it]
1260
1261 q_0: ┌ U3(2pi,pi,0) ┘ M ┌
1262 └─────────────────────────┘
1263 c_0: ┌─────────────────┐
1264
1265 111it [1:34:30, 63.57s/it]
1266
1267 q_0: ┌ U3(2pi,pi,pi/2) ┘ M ┌
1268 └─────────────────────────┘
1269 c_0: ┌─────────────────┐
1270
1271 112it [1:35:25, 60.89s/it]
1272
1273 q_0: ┌ U3(2pi,pi,pi) ┘ M ┌
1274 └─────────────────────────┘
```

```
1275 c_0: ====== L
1276
1277 113it [1:37:32, 80.65s/it]
1278
1279 q_0: + [ U3(2pi,pi,3pi/2) ] M
1280
1281 c_0: ====== L
1282
1283 114it [1:38:25, 72.57s/it]
1284
1285 q_0: + [ U3(2pi,pi,2pi) ] M
1286
1287 c_0: ====== L
1288
1289 115it [1:39:18, 66.59s/it]
1290
1291 q_0: + [ U3(2pi,3pi/2,0) ] M
1292
1293 c_0: ====== L
1294
1295 116it [1:40:11, 62.56s/it]
1296
1297 q_0: + [ U3(2pi,3pi/2,pi/2) ] M
1298
1299 c_0: ====== L
1300
1301 117it [1:42:23, 83.41s/it]
1302
1303 q_0: + [ U3(2pi,3pi/2,pi) ] M
1304
1305 c_0: ====== L
1306
1307 118it [1:43:17, 74.61s/it]
1308
1309 q_0: + [ U3(2pi,3pi/2,3pi/2) ] M
1310
1311 c_0: ====== L
1312
1313
1314
1315 119it [1:44:11, 68.51s/it] q_0: + [ U3(2pi,3pi/2,2pi
1316 ) ] M
1317 c_0: ====== L
```

```
1318
1319
1320
1321 q_0: ┌─────────┐ M ┌─────────┐
1322      └ U3(2pi,2pi,0) ┘   └ M ┘
1323 c_0: ──────────────────
1324
1325 121it [1:47:20, 85.07s/it]
1326
1327 q_0: ┌─────────┐ M ┌─────────┐
1328      └ U3(2pi,2pi,pi/2) ┘   └ M ┘
1329 c_0: ──────────────────
1330
1331
1332
1333 q_0: ┌─────────┐ M ┌─────────┐
1334      └ U3(2pi,2pi,pi) ┘   └ M ┘
1335 c_0: ──────────────────
1336
1337 123it [1:49:10, 69.88s/it]
1338
1339 q_0: ┌─────────┐ M ┌─────────┐
1340      └ U3(2pi,2pi,3pi/2) ┘   └ M ┘
1341 c_0: ──────────────────
1342
1343 124it [1:50:06, 65.61s/it]
1344
1345 q_0: ┌─────────┐ M ┌─────────┐
1346      └ U3(2pi,2pi,2pi) ┘   └ M ┘
1347 c_0: ──────────────────
1348
1349 125it [1:52:28, 53.99s/it]
1350 0it [00:00, ?it/s]
1351
1352 q_0: ┌─────────┐ M ┌─────────┐
1353      └ U3(0,0,0) ┘   └ M ┘
1354 c_0: ──────────────────
1355
1356 1it [02:12, 132.59s/it]
1357
1358 q_0: ┌─────────┐ M ┌─────────┐
1359      └ U3(0,0,2pi/5) ┘   └ M ┘
1360 c_0: ──────────────────
1361
```

```
1362 2it [03:01, 107.52s/it]
1363
1364 q_0: ┌─────────┐ M ┌─────────┐
1365   U3(0,0,4pi/5) ┘ ┘ ┘
1366 c_0: ──────────────────
1367
1368 3it [03:52, 90.62s/it]
1369
1370 q_0: ┌─────────┐ M ┌─────────┐
1371   U3(0,0,6pi/5) ┘ ┘ ┘
1372 c_0: ──────────────────
1373
1374 4it [04:45, 79.39s/it]
1375
1376 q_0: ┌─────────┐ M ┌─────────┐
1377   U3(0,0,8pi/5) ┘ ┘ ┘
1378 c_0: ──────────────────
1379
1380 5it [05:41, 72.08s/it]
1381
1382 q_0: ┌─────────┐ M ┌─────────┐
1383   U3(0,0,2pi) ┘ ┘ ┘
1384 c_0: ──────────────────
1385
1386 6it [08:14, 96.44s/it]
1387
1388 q_0: ┌─────────┐ M ┌─────────┐
1389   U3(0,2pi/5,0) ┘ ┘ ┘
1390 c_0: ──────────────────
1391
1392 7it [09:13, 85.41s/it]
1393
1394 q_0: ┌─────────┐ M ┌─────────┐
1395   U3(0,2pi/5,2pi/5) ┘ ┘ ┘
1396 c_0: ──────────────────
1397
1398 8it [10:16, 78.48s/it]
1399
1400 q_0: ┌─────────┐ M ┌─────────┐
1401   U3(0,2pi/5,4pi/5) ┘ ┘ ┘
1402 c_0: ──────────────────
1403
1404 9it [11:19, 73.83s/it]
1405 ────────────────── ─
```

```
1406 q_0: ┌ U3(0,2pi/5,6pi/5) ┘ M ┌
1407
1408 c_0: ━━━━━━
1409
1410 10it [12:24, 71.13s/it]
1411 q_0: ┌ U3(0,2pi/5,8pi/5) ┘ M ┌
1412
1413 c_0: ━━━━━━
1414
1415
1416
1417 q_0: ┌ U3(0,2pi/5,2pi) ┘ M ┌
1418
1419 c_0: ━━━━━━
1420
1421
1422 12it [16:26, 92.00s/it]
1423 q_0: ┌ U3(0,4pi/5,0) ┘ M ┌
1424
1425 c_0: ━━━━━━
1426
1427
1428
1429 q_0: ┌ U3(0,4pi/5,2pi/5) ┘ M ┌
1430
1431 c_0: ━━━━━━
1432
1433
1434 14it [18:48, 81.27s/it]
1435 q_0: ┌ U3(0,4pi/5,4pi/5) ┘ M ┌
1436
1437 c_0: ━━━━━━
1438
1439
1440 15it [20:02, 79.15s/it]
1441 q_0: ┌ U3(0,4pi/5,6pi/5) ┘ M ┌
1442
1443 c_0: ━━━━━━
1444
1445
1446
1447 q_0: ┌ U3(0,4pi/5,8pi/5) ┘ M ┌
1448
1449
```

```
1450 c_0: ======I  
1451  
1452 17it [24:37, 103.44s/it]  
1453  
1454 q_0: ┌ U3(0,4pi/5,2pi) ┘ M ┌  
1455 └─────────────────────────┘ |  
1456 c_0: ======I  
1457  
1458 18it [25:56, 96.28s/it]  
1459  
1460 q_0: ┌ U3(0,6pi/5,0) ┘ M ┌  
1461 └─────────────────────────┘ |  
1462 c_0: ======I  
1463  
1464 19it [27:18, 91.79s/it]  
1465  
1466 q_0: ┌ U3(0,6pi/5,2pi/5) ┘ M ┌  
1467 └─────────────────────────┘ |  
1468 c_0: ======I  
1469  
1470 20it [28:41, 89.14s/it]  
1471  
1472 q_0: ┌ U3(0,6pi/5,4pi/5) ┘ M ┌  
1473 └─────────────────────────┘ |  
1474 c_0: ======I  
1475  
1476 21it [32:20, 128.17s/it]  
1477  
1478 q_0: ┌ U3(0,6pi/5,6pi/5) ┘ M ┌  
1479 └─────────────────────────┘ |  
1480 c_0: ======I  
1481  
1482 22it [33:48, 116.22s/it]  
1483  
1484 q_0: ┌ U3(0,6pi/5,8pi/5) ┘ M ┌  
1485 └─────────────────────────┘ |  
1486 c_0: ======I  
1487  
1488  
1489  
1490 q_0: ┌ U3(0,6pi/5,2pi) ┘ M ┌  
1491 └─────────────────────────┘ |  
1492 c_0: ======I  
1493
```

```
1494 24it [36:49, 103.03s/it]
1495
1496 q_0: ┌─────────┐ M
1497   U3(0,8pi/5,0) ┘ └───┘
1498 c_0: ──────────────────
1499
1500 25it [38:22, 100.11s/it]
1501
1502 q_0: ┌─────────┐ M
1503   U3(0,8pi/5,2pi/5) ┘ └───┘
1504 c_0: ──────────────────
1505
1506
1507
1508 q_0: ┌─────────┐ M
1509   U3(0,8pi/5,4pi/5) ┘ └───┘
1510 c_0: ──────────────────
1511
1512 27it [44:03, 129.50s/it]
1513
1514 q_0: ┌─────────┐ M
1515   U3(0,8pi/5,6pi/5) ┘ └───┘
1516 c_0: ──────────────────
1517
1518 28it [45:43, 120.59s/it]
1519
1520 q_0: ┌─────────┐ M
1521   U3(0,8pi/5,8pi/5) ┘ └───┘
1522 c_0: ──────────────────
1523
1524
1525
1526 q_0: ┌─────────┐ M
1527   U3(0,8pi/5,2pi) ┘ └───┘
1528 c_0: ──────────────────
1529
1530 30it [49:09, 111.68s/it]
1531
1532 q_0: ┌─────────┐ M
1533   U3(0,2pi,0) ┘ └───┘
1534 c_0: ──────────────────
1535
1536
1537 ────────────────── └───┘
```

```
1538 q_0: ┌ U3(0,2pi,2pi/5) ┘ M ┌
1539 └─────────────────────────┘
1540 c_0: ──────────────────
1541
1542 32it [55:22, 142.86s/it]
1543
1544 q_0: ┌ U3(0,2pi,4pi/5) ┘ M ┌
1545 └─────────────────────────┘
1546 c_0: ──────────────────
1547
1548 33it [57:11, 132.52s/it]
1549
1550 q_0: ┌ U3(0,2pi,6pi/5) ┘ M ┌
1551 └─────────────────────────┘
1552 c_0: ──────────────────
1553
1554 34it [59:00, 125.65s/it]
1555
1556 q_0: ┌ U3(0,2pi,8pi/5) ┘ M ┌
1557 └─────────────────────────┘
1558 c_0: ──────────────────
1559
1560 35it [1:00:51, 121.27s/it]
1561
1562 q_0: ┌ U3(0,2pi,2pi) ┘ M ┌
1563 └─────────────────────────┘
1564 c_0: ──────────────────
1565
1566 36it [1:05:32, 169.08s/it]
1567
1568 q_0: ┌ U3(2pi/5,0,0) ┘ M ┌
1569 └─────────────────────────┘
1570 c_0: ──────────────────
1571
1572 37it [1:07:28, 153.21s/it]
1573
1574 q_0: ┌ U3(2pi/5,0,2pi/5) ┘ M ┌
1575 └─────────────────────────┘
1576 c_0: ──────────────────
1577
1578 38it [1:09:27, 142.89s/it]
1579
1580 q_0: ┌ U3(2pi/5,0,4pi/5) ┘ M ┌
1581 └─────────────────────────┘
```

```
1582 c_0: ======I  
1583  
1584 39it [1:11:27, 136.06s/it]  
1585  
1586 q_0: ┌ U3(2pi/5,0,6pi/5) ┘ M ┌  
1587 └─────────────────────────────────┘  
1588 c_0: ======I  
1589  
1590 40it [1:13:27, 131.27s/it]  
1591  
1592 q_0: ┌ U3(2pi/5,0,8pi/5) ┘ M ┌  
1593 └─────────────────────────────────┘  
1594 c_0: ======I  
1595  
1596 41it [1:15:30, 128.63s/it]  
1597  
1598 q_0: ┌ U3(2pi/5,0,2pi) ┘ M ┌  
1599 └─────────────────────────────────┘  
1600 c_0: ======I  
1601  
1602 42it [1:17:34, 127.19s/it]  
1603  
1604 q_0: ┌ U3(2pi/5,2pi/5,0) ┘ M ┌  
1605 └─────────────────────────────────┘  
1606 c_0: ======I  
1607  
1608 43it [1:19:38, 126.52s/it]  
1609  
1610 q_0: ┌ U3(2pi/5,2pi/5,2pi/5) ┘ M ┌  
1611 └─────────────────────────────────┘  
1612 c_0: ======I  
1613  
1614 44it [1:21:45, 126.63s/it]  
1615  
1616 q_0: ┌ U3(2pi/5,2pi/5,4pi/5) ┘ M ┌  
1617 └─────────────────────────────────┘  
1618 c_0: ======I  
1619  
1620 45it [1:23:54, 127.21s/it]  
1621  
1622 q_0: ┌ U3(2pi/5,2pi/5,6pi/5) ┘ M ┌  
1623 └─────────────────────────────────┘  
1624 c_0: ======I  
1625
```

```
1626
1627
1628 q_0: ┌ U3(2pi/5,2pi/5,8pi/5) ┘ M ┌
1629
1630 c_0: ──────────────────────────
1631
1632 47it [1:28:17, 129.57s/it]
1633
1634 q_0: ┌ U3(2pi/5,2pi/5,2pi) ┘ M ┌
1635
1636 c_0: ──────────────────────────
1637
1638 48it [1:30:31, 130.89s/it]
1639
1640 q_0: ┌ U3(2pi/5,4pi/5,0) ┘ M ┌
1641
1642 c_0: ──────────────────────────
1643
1644 49it [1:32:47, 132.42s/it]
1645
1646 q_0: ┌ U3(2pi/5,4pi/5,2pi/5) ┘ M ┌
1647
1648 c_0: ──────────────────────────
1649
1650 50it [1:35:05, 134.13s/it]
1651
1652 q_0: ┌ U3(2pi/5,4pi/5,4pi/5) ┘ M ┌
1653
1654 c_0: ──────────────────────────
1655
1656 51it [1:37:27, 136.30s/it]
1657
1658 q_0: ┌ U3(2pi/5,4pi/5,6pi/5) ┘ M ┌
1659
1660 c_0: ──────────────────────────
1661
1662 52it [1:39:49, 138.02s/it]
1663
1664 q_0: ┌ U3(2pi/5,4pi/5,8pi/5) ┘ M ┌
1665
1666 c_0: ──────────────────────────
1667
1668
1669 ────────────────────────── ┌
```

```
1670 q_0: ┌ U3(2pi/5,4pi/5,2pi) ┘ M ┌
1671
1672 c_0: ━━━━━━
1673
1674 54it [1:44:40, 141.92s/it]
1675
1676 q_0: ┌ U3(2pi/5,6pi/5,0) ┘ M ┌
1677
1678 c_0: ━━━━━━
1679
1680
1681
1682 q_0: ┌ U3(2pi/5,6pi/5,2pi/5) ┘ M ┌
1683
1684 c_0: ━━━━━━
1685
1686 56it [1:49:37, 145.41s/it]
1687
1688 q_0: ┌ U3(2pi/5,6pi/5,4pi/5) ┘ M ┌
1689
1690 c_0: ━━━━━━
1691
1692
1693
1694 q_0: ┌ U3(2pi/5,6pi/5,6pi/5) ┘ M ┌
1695
1696 c_0: ━━━━━━
1697
1698 58it [1:54:41, 148.77s/it]
1699
1700 q_0: ┌ U3(2pi/5,6pi/5,8pi/5) ┘ M ┌
1701
1702 c_0: ━━━━━━
1703
1704
1705
1706 q_0: ┌ U3(2pi/5,6pi/5,2pi) ┘ M ┌
1707
1708 c_0: ━━━━━━
1709
1710 60it [1:59:59, 154.28s/it]
1711
1712 q_0: ┌ U3(2pi/5,8pi/5,0) ┘ M ┌
1713
```

```
1714 c_0: ======I  
1715  
1716 61it [2:02:38, 155.78s/it]  
1717  
1718 q_0: ┌ U3(2pi/5,8pi/5,2pi/5) ┘ M ┌  
1719 └─────────────────────────────────┘  
1720 c_0: ======I  
1721  
1722 62it [2:05:18, 156.92s/it]  
1723  
1724 q_0: ┌ U3(2pi/5,8pi/5,4pi/5) ┘ M ┌  
1725 └─────────────────────────────────┘  
1726 c_0: ======I  
1727  
1728 63it [2:07:59, 158.19s/it]  
1729  
1730 q_0: ┌ U3(2pi/5,8pi/5,6pi/5) ┘ M ┌  
1731 └─────────────────────────────────┘  
1732 c_0: ======I  
1733  
1734 64it [2:10:43, 159.93s/it]  
1735  
1736 q_0: ┌ U3(2pi/5,8pi/5,8pi/5) ┘ M ┌  
1737 └─────────────────────────────────┘  
1738 c_0: ======I  
1739  
1740 65it [2:13:27, 160.96s/it]  
1741  
1742 q_0: ┌ U3(2pi/5,8pi/5,2pi) ┘ M ┌  
1743 └─────────────────────────────────┘  
1744 c_0: ======I  
1745  
1746 66it [2:16:12, 162.25s/it]  
1747  
1748 q_0: ┌ U3(2pi/5,2pi,0) ┘ M ┌  
1749 └─────────────────────────────────┘  
1750 c_0: ======I  
1751  
1752 67it [2:18:59, 163.71s/it]  
1753  
1754 q_0: ┌ U3(2pi/5,2pi,2pi/5) ┘ M ┌  
1755 └─────────────────────────────────┘  
1756 c_0: ======I  
1757
```

```
1758
1759
1760 q_0: ┌─────────┐ M ┌─────────┐
1761      U3(2pi/5,2pi,4pi/5) ┘ ┘
1762 c_0: ──────────────────
1763
1764 69it [2:24:40, 167.37s/it]
1765
1766 q_0: ┌─────────┐ M ┌─────────┐
1767      U3(2pi/5,2pi,6pi/5) ┘ ┘
1768 c_0: ──────────────────
1769
1770 70it [2:27:35, 169.49s/it]
1771
1772 q_0: ┌─────────┐ M ┌─────────┐
1773      U3(2pi/5,2pi,8pi/5) ┘ ┘
1774 c_0: ──────────────────
1775
1776 71it [2:30:31, 171.39s/it]
1777
1778 q_0: ┌─────────┐ M ┌─────────┐
1779      U3(2pi/5,2pi,2pi) ┘ ┘
1780 c_0: ──────────────────
1781
1782
1783
1784 q_0: ┌─────────┐ M ┌─────────┐
1785      U3(4pi/5,0,0) ┘ ┘
1786 c_0: ──────────────────
1787
1788 73it [2:36:29, 175.32s/it]
1789
1790 q_0: ┌─────────┐ M ┌─────────┐
1791      U3(4pi/5,0,2pi/5) ┘ ┘
1792 c_0: ──────────────────
1793
1794 74it [2:39:30, 177.30s/it]
1795
1796 q_0: ┌─────────┐ M ┌─────────┐
1797      U3(4pi/5,0,4pi/5) ┘ ┘
1798 c_0: ──────────────────
1799
1800
1801 ┌─────────┐ ┌─────────┐
```

```
1802 q_0: ┌ U3(4pi/5,0,6pi/5) ┘ M ┌
1803
1804 c_0: ━━━━━━
1805
1806 76it [2:45:41, 181.27s/it]
1807
1808 q_0: ┌ U3(4pi/5,0,8pi/5) ┘ M ┌
1809
1810 c_0: ━━━━━━
1811
1812 77it [2:48:48, 183.26s/it]
1813
1814 q_0: ┌ U3(4pi/5,0,2pi) ┘ M ┌
1815
1816 c_0: ━━━━━━
1817
1818 78it [2:52:01, 185.93s/it]
1819
1820 q_0: ┌ U3(4pi/5,2pi/5,0) ┘ M ┌
1821
1822 c_0: ━━━━━━
1823
1824 79it [2:55:12, 187.55s/it]
1825
1826 q_0: ┌ U3(4pi/5,2pi/5,2pi/5) ┘ M ┌
1827
1828 c_0: ━━━━━━
1829
1830
1831
1832 q_0: ┌ U3(4pi/5,2pi/5,4pi/5) ┘ M ┌
1833
1834 c_0: ━━━━━━
1835
1836 81it [3:01:36, 189.77s/it]
1837
1838 q_0: ┌ U3(4pi/5,2pi/5,6pi/5) ┘ M ┌
1839
1840 c_0: ━━━━━━
1841
1842 82it [3:04:50, 191.14s/it]
1843
1844 q_0: ┌ U3(4pi/5,2pi/5,8pi/5) ┘ M ┌
1845
```

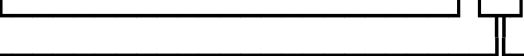
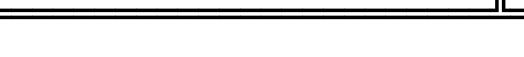
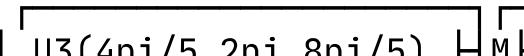
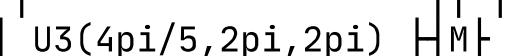
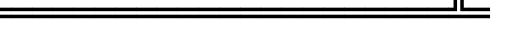
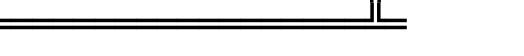
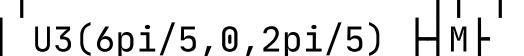
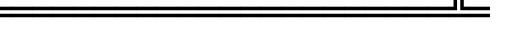
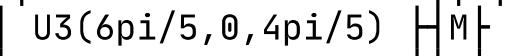
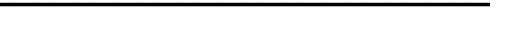
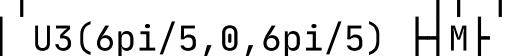
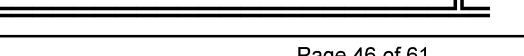
```
1846 c_0: ======I
1847
1848 83it [3:08:06, 192.57s/it]
1849
1850 q_0: ┌─────────┐ M ┌─────────┐
1851   U3(4pi/5,2pi/5,2pi) ┘ ┘
1852 c_0: ======I
1853
1854 84it [3:11:41, 199.27s/it]
1855
1856 q_0: ┌─────────┐ M ┌─────────┐
1857   U3(4pi/5,4pi/5,0) ┘ ┘
1858 c_0: ======I
1859
1860 85it [3:15:05, 200.87s/it]
1861
1862 q_0: ┌─────────┐ M ┌─────────┐
1863   U3(4pi/5,4pi/5,2pi/5) ┘ ┘
1864 c_0: ======I
1865
1866 86it [3:18:27, 201.01s/it]
1867
1868 q_0: ┌─────────┐ M ┌─────────┐
1869   U3(4pi/5,4pi/5,4pi/5) ┘ ┘
1870 c_0: ======I
1871
1872 87it [3:21:50, 201.79s/it]
1873
1874 q_0: ┌─────────┐ M ┌─────────┐
1875   U3(4pi/5,4pi/5,6pi/5) ┘ ┘
1876 c_0: ======I
1877
1878 88it [3:25:17, 203.17s/it]
1879
1880 q_0: ┌─────────┐ M ┌─────────┐
1881   U3(4pi/5,4pi/5,8pi/5) ┘ ┘
1882 c_0: ======I
1883
1884 89it [3:28:45, 204.70s/it]
1885
1886 q_0: ┌─────────┐ M ┌─────────┐
1887   U3(4pi/5,4pi/5,2pi) ┘ ┘
1888 c_0: ======I
1889
```

```
1890 90it [3:32:14, 205.97s/it]
1891
1892 q_0: ┌─────────┐ M
1893   U3(4pi/5,6pi/5,0) ┘ └─┘
1894 c_0: ──────────────────
1895
1896 91it [3:35:46, 207.81s/it]
1897
1898 q_0: ┌─────────┐ M
1899   U3(4pi/5,6pi/5,2pi/5) ┘ └─┘
1900 c_0: ──────────────────
1901
1902 92it [3:39:18, 209.19s/it]
1903
1904 q_0: ┌─────────┐ M
1905   U3(4pi/5,6pi/5,4pi/5) ┘ └─┘
1906 c_0: ──────────────────
1907
1908 93it [3:42:54, 211.23s/it]
1909
1910 q_0: ┌─────────┐ M
1911   U3(4pi/5,6pi/5,6pi/5) ┘ └─┘
1912 c_0: ──────────────────
1913
1914 94it [3:46:30, 212.66s/it]
1915
1916 q_0: ┌─────────┐ M
1917   U3(4pi/5,6pi/5,8pi/5) ┘ └─┘
1918 c_0: ──────────────────
1919
1920 95it [3:50:08, 214.26s/it]
1921
1922 q_0: ┌─────────┐ M
1923   U3(4pi/5,6pi/5,2pi) ┘ └─┘
1924 c_0: ──────────────────
1925
1926 96it [3:53:50, 216.33s/it]
1927
1928 q_0: ┌─────────┐ M
1929   U3(4pi/5,8pi/5,0) ┘ └─┘
1930 c_0: ──────────────────
1931
1932 97it [3:57:31, 217.98s/it]
1933
```

```

1934 q_0: ┌ U3(4pi/5,8pi/5,2pi/5) ┘ M ┌
1935
1936 c_0: ──────────────────────────────────
1937
1938 98it [4:01:15, 219.73s/it]
1939
1940 q_0: ┌ U3(4pi/5,8pi/5,4pi/5) ┘ M ┌
1941
1942 c_0: ──────────────────────────────────
1943
1944 99it [4:05:00, 221.18s/it]
1945
1946 q_0: ┌ U3(4pi/5,8pi/5,6pi/5) ┘ M ┌
1947
1948 c_0: ──────────────────────────────────
1949
1950 100it [4:08:47, 222.89s/it]
1951
1952 q_0: ┌ U3(4pi/5,8pi/5,8pi/5) ┘ M ┌
1953
1954 c_0: ──────────────────────────────────
1955
1956
1957
1958 101it [4:12:37, 225.03s/it] q_0: ┌ U3(4pi/5,8pi/5,
2pi) ┘ M ┌
1959
1960 c_0: ──────────────────────────────────
1961
1962 102it [4:16:29, 227.33s/it]
1963
1964 q_0: ┌ U3(4pi/5,2pi,0) ┘ M ┌
1965
1966 c_0: ──────────────────────────────────
1967
1968 103it [4:20:22, 229.03s/it]
1969
1970 q_0: ┌ U3(4pi/5,2pi,2pi/5) ┘ M ┌
1971
1972 c_0: ──────────────────────────────────
1973
1974 104it [4:24:16, 230.52s/it]
1975
1976 q_0: ┌ U3(4pi/5,2pi,4pi/5) ┘ M ┌

```

1977	
1978 c_0:	
1979	
1980 105it [4:28:12, 231.98s/it]	
1981	
1982 q_0:  M	
1983	
1984 c_0: 	
1985	
1986 106it [4:32:08, 233.30s/it]	
1987	
1988 q_0:  M	
1989	
1990 c_0: 	
1991	
1992 107it [4:36:08, 235.17s/it]	
1993	
1994 q_0:  M	
1995	
1996 c_0: 	
1997	
1998 108it [4:40:11, 237.62s/it]	
1999	
2000 q_0:  M	
2001	
2002 c_0: 	
2003	
2004 109it [4:44:17, 240.13s/it]	
2005	
2006 q_0:  M	
2007	
2008 c_0: 	
2009	
2010 110it [4:48:22, 241.70s/it]	
2011	
2012 q_0:  M	
2013	
2014 c_0: 	
2015	
2016 111it [4:52:29, 243.11s/it]	
2017	
2018 q_0:  M	
2019	
2020 c_0: 	

2021
2022 112it [4:56:38, 244.82s/it]
2023
2024 q_0: ┌─────────┐ M ─
 └─────────┘
2025
2026 c_0: ──────────
2027
2028 113it [5:00:50, 247.16s/it]
2029
2030 q_0: ┌─────────┐ M ─
 └─────────┘
2031
2032 c_0: ──────────
2033
2034 114it [5:05:05, 249.35s/it]
2035
2036 q_0: ┌─────────┐ M ─
 └─────────┘
2037
2038 c_0: ──────────
2039
2040 115it [5:09:22, 251.69s/it]
2041
2042 q_0: ┌─────────┐ M ─
 └─────────┘
2043
2044 c_0: ──────────
2045
2046 116it [5:13:46, 255.55s/it]
2047
2048 q_0: ┌─────────┐ M ─
 └─────────┘
2049
2050 c_0: ──────────
2051
2052
2053
2054 q_0: ┌─────────┐ M ─
 └─────────┘
2055
2056 c_0: ──────────
2057
2058 118it [5:22:41, 261.82s/it]
2059
2060 q_0: ┌─────────┐ M ─
 └─────────┘
2061
2062 c_0: ──────────
2063
2064

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2065
2066 q_0: ┌─────────┐ M ┌─────────┐
2067   U3(6pi/5,2pi/5,2pi) ┘ ┘
2068 c_0: ──────────────────
2069
2070 120it [5:32:39, 283.26s/it]
2071
2072 q_0: ┌─────────┐ M ┌─────────┐
2073   U3(6pi/5,4pi/5,0) ┘ ┘
2074 c_0: ──────────────────
2075
2076
2077
2078 121it [5:43:54, 400.86s/it] q_0: ┌─────────┐ U3(6pi/5,4pi/5,
2079   2pi/5) ┘ M ┘
2080 c_0: ──────────────────
2081
2082 122it [5:55:09, 483.05s/it]
2083
2084 q_0: ┌─────────┐ M ┌─────────┐
2085   U3(6pi/5,4pi/5,4pi/5) ┘ ┘
2086 c_0: ──────────────────
2087
2088 123it [6:06:39, 545.24s/it]
2089
2090 q_0: ┌─────────┐ M ┌─────────┐
2091   U3(6pi/5,4pi/5,6pi/5) ┘ ┘
2092 c_0: ──────────────────
2093
2094 124it [6:17:54, 584.01s/it]
2095
2096 q_0: ┌─────────┐ M ┌─────────┐
2097   U3(6pi/5,4pi/5,8pi/5) ┘ ┘
2098 c_0: ──────────────────
2099
2100
2101
2102 q_0: ┌─────────┐ M ┌─────────┐
2103   U3(6pi/5,4pi/5,2pi) ┘ ┘
2104 c_0: ──────────────────
2105
2106 126it [6:40:46, 636.83s/it]
2107 ──────────────────
```

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2108 q_0: ┌ U3(6pi/5,6pi/5,0) ┘ M ┌
2109
2110 c_0: ━━━━━━━━
2111
2112
2113
2114 q_0: ┌ U3(6pi/5,6pi/5,2pi/5) ┘ M ┌
2115
2116 c_0: ━━━━━━━━
2117
2118 128it [7:04:43, 679.80s/it]
2119
2120 q_0: ┌ U3(6pi/5,6pi/5,4pi/5) ┘ M ┌
2121
2122 c_0: ━━━━━━━━
2123
2124 129it [7:16:43, 691.71s/it]
2125
2126 q_0: ┌ U3(6pi/5,6pi/5,6pi/5) ┘ M ┌
2127
2128 c_0: ━━━━━━━━
2129
2130 130it [7:23:15, 601.87s/it]
2131
2132 q_0: ┌ U3(6pi/5,6pi/5,8pi/5) ┘ M ┌
2133
2134 c_0: ━━━━━━━━
2135
2136 131it [7:27:46, 502.76s/it]
2137
2138 q_0: ┌ U3(6pi/5,6pi/5,2pi) ┘ M ┌
2139
2140 c_0: ━━━━━━━━
2141
2142 132it [7:32:18, 433.29s/it]
2143
2144 q_0: ┌ U3(6pi/5,8pi/5,0) ┘ M ┌
2145
2146 c_0: ━━━━━━━━
2147
2148 133it [7:36:52, 385.56s/it]
2149
2150 q_0: ┌ U3(6pi/5,8pi/5,2pi/5) ┘ M ┌
2151
```

```
2152 c_0: ======I  
2153  
2154  
2155  
2156 q_0: + [ U3(6pi/5,8pi/5,4pi/5) ] M  
2157  
2158 c_0: ======I  
2159  
2160 135it [7:46:06, 330.54s/it]  
2161  
2162 q_0: + [ U3(6pi/5,8pi/5,6pi/5) ] M  
2163  
2164 c_0: ======I  
2165  
2166  
2167  
2168 q_0: + [ U3(6pi/5,8pi/5,8pi/5) ] M  
2169  
2170 c_0: ======I  
2171  
2172 137it [7:55:28, 305.48s/it]  
2173  
2174 q_0: + [ U3(6pi/5,8pi/5,2pi) ] M  
2175  
2176 c_0: ======I  
2177  
2178 138it [8:00:12, 298.89s/it]  
2179  
2180 q_0: + [ U3(6pi/5,2pi,0) ] M  
2181  
2182 c_0: ======I  
2183  
2184 139it [8:04:57, 294.80s/it]  
2185  
2186 q_0: + [ U3(6pi/5,2pi,2pi/5) ] M  
2187  
2188 c_0: ======I  
2189  
2190 140it [8:09:44, 292.45s/it]  
2191  
2192 q_0: + [ U3(6pi/5,2pi,4pi/5) ] M  
2193  
2194 c_0: ======I  
2195
```

```
2196 141it [8:14:36, 292.26s/it]
2197
2198 q_0: ┌─────────┐ M ┌─────────┐
2199   U3(6pi/5,2pi,6pi/5) ┘ ┘
2200 c_0: ──────────────────
2201
2202 142it [8:19:27, 291.98s/it]
2203
2204 q_0: ┌─────────┐ M ┌─────────┐
2205   U3(6pi/5,2pi,8pi/5) ┘ ┘
2206 c_0: ──────────────────
2207
2208 143it [8:24:20, 292.32s/it]
2209
2210 q_0: ┌─────────┐ M ┌─────────┐
2211   U3(6pi/5,2pi,2pi) ┘ ┘
2212 c_0: ──────────────────
2213
2214
2215
2216 q_0: ┌─────────┐ M ┌─────────┐
2217   U3(8pi/5,0,0) ┘ ┘
2218 c_0: ──────────────────
2219
2220 145it [8:34:12, 294.12s/it]
2221
2222 q_0: ┌─────────┐ M ┌─────────┐
2223   U3(8pi/5,0,2pi/5) ┘ ┘
2224 c_0: ──────────────────
2225
2226 146it [8:39:10, 295.45s/it]
2227
2228 q_0: ┌─────────┐ M ┌─────────┐
2229   U3(8pi/5,0,4pi/5) ┘ ┘
2230 c_0: ──────────────────
2231
2232
2233
2234 q_0: ┌─────────┐ M ┌─────────┐
2235   U3(8pi/5,0,6pi/5) ┘ ┘
2236 c_0: ──────────────────
2237
2238 148it [8:49:13, 298.56s/it]
2239 ┌─────────┐
```

```
2240 q_0: ┌ U3(8pi/5,0,8pi/5) ┘ M ┌
2241
2242 c_0: ━━━━━━
2243
2244 149it [8:54:17, 300.00s/it]
2245
2246 q_0: ┌ U3(8pi/5,0,2pi) ┘ M ┌
2247
2248 c_0: ━━━━━━
2249
2250 150it [8:59:23, 301.89s/it]
2251
2252 q_0: ┌ U3(8pi/5,2pi/5,0) ┘ M ┌
2253
2254 c_0: ━━━━━━
2255
2256
2257
2258 q_0: ┌ U3(8pi/5,2pi/5,2pi/5) ┘ M ┌
2259
2260 c_0: ━━━━━━
2261
2262 152it [9:09:38, 304.89s/it]
2263
2264 q_0: ┌ U3(8pi/5,2pi/5,4pi/5) ┘ M ┌
2265
2266 c_0: ━━━━━━
2267
2268 153it [9:14:51, 307.09s/it]
2269
2270 q_0: ┌ U3(8pi/5,2pi/5,6pi/5) ┘ M ┌
2271
2272 c_0: ━━━━━━
2273
2274 154it [9:20:03, 308.82s/it]
2275
2276 q_0: ┌ U3(8pi/5,2pi/5,8pi/5) ┘ M ┌
2277
2278 c_0: ━━━━━━
2279
2280 155it [9:25:18, 310.57s/it]
2281
2282 q_0: ┌ U3(8pi/5,2pi/5,2pi) ┘ M ┌
2283
```

```
2284 c_0: ━━━━
2285
2286
2287
2288 q_0: ┌ U3(8pi/5,4pi/5,0) ┘ M ┌
2289
2290 c_0: ━━━━
2291
2292 157it [9:35:51, 313.44s/it]
2293
2294 q_0: ┌ U3(8pi/5,4pi/5,2pi/5) ┘ M ┌
2295
2296 c_0: ━━━━
2297
2298
2299
2300 q_0: ┌ U3(8pi/5,4pi/5,4pi/5) ┘ M ┌
2301
2302 c_0: ━━━━
2303
2304 159it [9:46:33, 317.53s/it]
2305
2306 q_0: ┌ U3(8pi/5,4pi/5,6pi/5) ┘ M ┌
2307
2308 c_0: ━━━━
2309
2310 160it [9:51:57, 319.43s/it]
2311
2312 q_0: ┌ U3(8pi/5,4pi/5,8pi/5) ┘ M ┌
2313
2314 c_0: ━━━━
2315
2316 161it [9:57:23, 321.37s/it]
2317
2318 q_0: ┌ U3(8pi/5,4pi/5,2pi) ┘ M ┌
2319
2320 c_0: ━━━━
2321
2322 162it [10:02:49, 323.02s/it]
2323
2324 q_0: ┌ U3(8pi/5,6pi/5,0) ┘ M ┌
2325
2326 c_0: ━━━━
2327
```

```
2328 163it [10:08:19, 324.96s/it]
2329
2330 q_0: ┌─────────┐ M ┌─────────┐
2331   U3(8pi/5,6pi/5,2pi/5) ┘ ┘
2332 c_0: ──────────────────
2333
2334 164it [10:13:53, 327.83s/it]
2335
2336 q_0: ┌─────────┐ M ┌─────────┐
2337   U3(8pi/5,6pi/5,4pi/5) ┘ ┘
2338 c_0: ──────────────────
2339
2340 165it [10:19:27, 329.62s/it]
2341
2342 q_0: ┌─────────┐ M ┌─────────┐
2343   U3(8pi/5,6pi/5,6pi/5) ┘ ┘
2344 c_0: ──────────────────
2345
2346 166it [10:25:04, 331.76s/it]
2347
2348 q_0: ┌─────────┐ M ┌─────────┐
2349   U3(8pi/5,6pi/5,8pi/5) ┘ ┘
2350 c_0: ──────────────────
2351
2352 167it [10:30:44, 334.19s/it]
2353
2354 q_0: ┌─────────┐ M ┌─────────┐
2355   U3(8pi/5,6pi/5,2pi) ┘ ┘
2356 c_0: ──────────────────
2357
2358 168it [10:36:25, 336.18s/it]
2359
2360 q_0: ┌─────────┐ M ┌─────────┐
2361   U3(8pi/5,8pi/5,0) ┘ ┘
2362 c_0: ──────────────────
2363
2364 169it [10:42:07, 337.89s/it]
2365
2366 q_0: ┌─────────┐ M ┌─────────┐
2367   U3(8pi/5,8pi/5,2pi/5) ┘ ┘
2368 c_0: ──────────────────
2369
2370 170it [10:47:52, 340.29s/it]
2371
```

```
2372 q_0: ┌ U3(8pi/5,8pi/5,4pi/5) ┘ M ┌
2373
2374 c_0: ━━━━━━
2375
2376 171it [10:53:39, 342.25s/it]
2377
2378 q_0: ┌ U3(8pi/5,8pi/5,6pi/5) ┘ M ┌
2379
2380 c_0: ━━━━━━
2381
2382 172it [10:59:28, 344.20s/it]
2383
2384 q_0: ┌ U3(8pi/5,8pi/5,8pi/5) ┘ M ┌
2385
2386 c_0: ━━━━━━
2387
2388
2389
2390 q_0: ┌ U3(8pi/5,8pi/5,2pi) ┘ M ┌
2391
2392 c_0: ━━━━━━
2393
2394 174it [11:11:13, 348.55s/it]
2395
2396 q_0: ┌ U3(8pi/5,2pi,0) ┘ M ┌
2397
2398 c_0: ━━━━━━
2399
2400 175it [11:17:09, 350.59s/it]
2401
2402 q_0: ┌ U3(8pi/5,2pi,2pi/5) ┘ M ┌
2403
2404 c_0: ━━━━━━
2405
2406 176it [11:23:05, 352.24s/it]
2407
2408 q_0: ┌ U3(8pi/5,2pi,4pi/5) ┘ M ┌
2409
2410 c_0: ━━━━━━
2411
2412 177it [11:29:03, 354.02s/it]
2413
2414 q_0: ┌ U3(8pi/5,2pi,6pi/5) ┘ M ┌
2415
```

```
2416 c_0: ======I
2417
2418 178it [11:35:01, 355.14s/it]
2419
2420 q_0: ┌─────────┐ M ┘
      └─────────┘
2421
2422 c_0: ======I
2423
2424 179it [11:41:03, 357.25s/it]
2425
2426 q_0: ┌─────────┐ M ┘
      └─────────┘
2427
2428 c_0: ======I
2429
2430 180it [11:47:06, 359.10s/it]
2431
2432 q_0: ┌─────────┐ M ┘
      └─────────┘
2433
2434 c_0: ======I
2435
2436
2437
2438 q_0: ┌─────────┐ M ┘
      └─────────┘
2439
2440 c_0: ======I
2441
2442 182it [12:06:46, 456.57s/it]
2443
2444 q_0: ┌─────────┐ M ┘
      └─────────┘
2445
2446 c_0: ======I
2447
2448
2449
2450 q_0: ┌─────────┐ M ┘
      └─────────┘
2451
2452 c_0: ======I
2453
2454 184it [12:19:08, 413.06s/it]
2455
2456 q_0: ┌─────────┐ M ┘
      └─────────┘
2457
2458 c_0: ======I
2459
```

```
2460
2461
2462 q_0: ┌─────────┐ M
2463   └─────────┘
2464 c_0: ━━━━━━
2465
2466 186it [12:39:14, 530.48s/it]
2467
2468 q_0: ┌─────────┐ M
2469   └─────────┘
2470 c_0: ━━━━━━
2471
2472 187it [12:45:32, 484.65s/it]
2473
2474 q_0: ┌─────────┐ M
2475   └─────────┘
2476 c_0: ━━━━━━
2477
2478 188it [12:51:51, 452.94s/it]
2479
2480 q_0: ┌─────────┐ M
2481   └─────────┘
2482 c_0: ━━━━━━
2483
2484 189it [12:58:12, 431.35s/it]
2485
2486 q_0: ┌─────────┐ M
2487   └─────────┘
2488 c_0: ━━━━━━
2489
2490
2491
2492 q_0: ┌─────────┐ M
2493   └─────────┘
2494 c_0: ━━━━━━
2495
2496 191it [13:18:49, 548.21s/it]
2497
2498 q_0: ┌─────────┐ M
2499   └─────────┘
2500 c_0: ━━━━━━
2501
2502 192it [13:25:18, 500.37s/it]
2503 ━
```

```
2504 q_0: ┌ U3(2pi, 4pi/5, 0) ┘ M ┌
2505 └─────────────────────────────────┘
2506 c_0: ──────────────────────────
2507
2508 193it [13:31:48, 467.26s/it]
2509
2510 q_0: ┌ U3(2pi, 4pi/5, 2pi/5) ┘ M ┌
2511 └─────────────────────────────────┘
2512 c_0: ──────────────────────────
2513
2514 194it [13:38:17, 443.88s/it]
2515
2516 q_0: ┌ U3(2pi, 4pi/5, 4pi/5) ┘ M ┌
2517 └─────────────────────────────────┘
2518 c_0: ──────────────────────────
2519
2520 195it [13:44:51, 428.69s/it]
2521
2522 q_0: ┌ U3(2pi, 4pi/5, 6pi/5) ┘ M ┌
2523 └─────────────────────────────────┘
2524 c_0: ──────────────────────────
2525
2526 196it [13:59:09, 557.53s/it]
2527
2528 q_0: ┌ U3(2pi, 4pi/5, 8pi/5) ┘ M ┌
2529 └─────────────────────────────────┘
2530 c_0: ──────────────────────────
2531
2532 197it [14:05:43, 508.65s/it]
2533
2534 q_0: ┌ U3(2pi, 4pi/5, 2pi) ┘ M ┌
2535 └─────────────────────────────────┘
2536 c_0: ──────────────────────────
2537
2538 198it [14:12:21, 475.31s/it]
2539
2540 q_0: ┌ U3(2pi, 6pi/5, 0) ┘ M ┌
2541 └─────────────────────────────────┘
2542 c_0: ──────────────────────────
2543
2544 199it [14:19:01, 452.72s/it]
2545
2546 q_0: ┌ U3(2pi, 6pi/5, 2pi/5) ┘ M ┌
2547 └─────────────────────────────────┘
```

```
2548 c_0: ======I
2549
2550 200it [14:25:41, 436.97s/it]
2551
2552 q_0: ┌─────────┐ M ┌─────────┐
2553   U3(2pi,6pi/5,4pi/5) ┘ ┘
2554 c_0: ======I
2555
2556
2557
2558 q_0: ┌─────────┐ M ┌─────────┐
2559   U3(2pi,6pi/5,6pi/5) ┘ ┘
2560 c_0: ======I
2561
2562 202it [14:46:59, 519.52s/it]
2563
2564 q_0: ┌─────────┐ M ┌─────────┐
2565   U3(2pi,6pi/5,8pi/5) ┘ ┘
2566 c_0: ======I
2567
2568 203it [14:53:47, 485.99s/it]
2569
2570 q_0: ┌─────────┐ M ┌─────────┐
2571   U3(2pi,6pi/5,2pi) ┘ ┘
2572 c_0: ======I
2573
2574
2575
2576 q_0: ┌─────────┐ M ┌─────────┐
2577   U3(2pi,8pi/5,0) ┘ ┘
2578 c_0: ======I
2579
2580 205it [15:07:31, 448.17s/it]
2581
2582 q_0: ┌─────────┐ M ┌─────────┐
2583   U3(2pi,8pi/5,2pi/5) ┘ ┘
2584 c_0: ======I
2585
2586 206it [15:22:44, 587.51s/it]
2587
2588 q_0: ┌─────────┐ M ┌─────────┐
2589   U3(2pi,8pi/5,4pi/5) ┘ ┘
2590 c_0: ======I
2591
```

```
2592 207it [15:29:43, 537.14s/it]
2593
2594 q_0: ┌─────────┐ M ┌─────────┐
2595   U3(2pi,8pi/5,6pi/5) ┘ ┘
2596 c_0: ──────────────────
2597
2598 208it [15:36:40, 501.01s/it]
2599
2600 q_0: ┌─────────┐ M ┌─────────┐
2601   U3(2pi,8pi/5,8pi/5) ┘ ┘
2602 c_0: ──────────────────
2603
2604 209it [15:43:43, 477.58s/it]
2605
2606 q_0: ┌─────────┐ M ┌─────────┐
2607   U3(2pi,8pi/5,2pi) ┘ ┘
2608 c_0: ──────────────────
2609
2610 210it [15:50:50, 462.57s/it]
2611
2612 q_0: ┌─────────┐ M ┌─────────┐
2613   U3(2pi,2pi,0) ┘ ┘
2614 c_0: ──────────────────
2615
2616
2617
2618 q_0: ┌─────────┐ M ┌─────────┐
2619   U3(2pi,2pi,2pi/5) ┘ ┘
2620 c_0: ──────────────────
2621
2622 212it [16:13:09, 546.21s/it]
2623
2624 q_0: ┌─────────┐ M ┌─────────┐
2625   U3(2pi,2pi,4pi/5) ┘ ┘
2626 c_0: ──────────────────
2627
2628
2629
2630 q_0: ┌─────────┐ M ┌─────────┐
2631   U3(2pi,2pi,6pi/5) ┘ ┘
2632 c_0: ──────────────────
2633
2634 214it [16:27:38, 489.35s/it]
2635 ┌─────────┐
```

```
2636 q_0: ┌ U3(2pi,2pi,8pi/5) ┘ M ┌
2637
2638 c_0: ━━━━━━
2639
2640 215it [16:35:01, 475.61s/it]
2641
2642 q_0: ┌ U3(2pi,2pi,2pi) ┘ M ┌
2643
2644 c_0: ━━━━━━
2645
2646 216it [16:50:28, 280.69s/it]
2647 0it [00:00, ?it/s]
2648
2649 q_0: ┌ U3(0,0,0) ┘ M ┌
2650
2651 c_0: ━━━━━━
2652
2653
2654 Process finished with exit code -1
2655
```