

| #<br>Pauli<br>terms | # of qubits $q$        |    |    |    |    |                      |      |      |       |        |
|---------------------|------------------------|----|----|----|----|----------------------|------|------|-------|--------|
|                     | weights in $\{-1, 1\}$ |    |    |    |    | weights in $[-1, 1]$ |      |      |       |        |
|                     | 10                     | 12 | 14 | 16 | 18 | 10                   | 12   | 14   | 16    | 18     |
| 10                  | 9                      | 9  | 10 | 10 | 11 | 336                  | 390  | 633  | 755   | 896    |
| 20                  | 13                     | 14 | 16 | 17 | 18 | 499                  | 1843 | 6246 | 19251 | 45056  |
| 30                  | 16                     | 18 | 20 | 20 | 22 | 512                  | 1997 | 7680 | 30310 | 95027  |
| 40                  | 19                     | 21 | 22 | 24 | 26 | 512                  | 2048 | 8192 | 31948 | 117964 |
| 50                  | 21                     | 23 | 25 | 27 | 29 | 512                  | 2048 | 8192 | 32768 | 131072 |
| 60                  | 23                     | 26 | 28 | 30 | 33 | 512                  | 2048 | 8192 | 32768 | 131072 |
| 70                  | 24                     | 28 | 31 | 32 | 35 | 512                  | 2048 | 8192 | 32768 | 131072 |
| 80                  | 26                     | 30 | 32 | 34 | 37 | 512                  | 2048 | 8192 | 32768 | 131072 |
| 90                  | 14                     | 32 | 34 | 36 | 39 | 512                  | 2048 | 8192 | 32768 | 131072 |
| 100                 | 14                     | 33 | 35 | 38 | 41 | 512                  | 2048 | 8192 | 32768 | 131072 |