Hamiltonian Term Breakdown

3.
$$r00$$
: A* $|100 > < r00|$ + $\Delta |r00 > < r00|$

5. **00r**:
$$A^*$$
 |**001**> <**00r**| + Δ |**00r**> <**00r**|

7. r01: A
$$|r0r\rangle < r01| + A^* |101\rangle < r01| + \Delta |r01\rangle < r01|$$

8. 10r: A
$$|r0r\rangle < 10r| + A^* |101\rangle < 10r| + \Delta |10r\rangle < 10r|$$

9.
$$r0r: A^* |r01> < r0r| + A^* |10r> < r0r| + (2 \Delta + V (2d)^{-0}) |r0r> < r0r|$$

11. 0r0 :
$$A^*$$
 |010> <0r0| + Δ |0r0> <0r0|

13. 1r0 : A
$$|rr0 > <1r0| + A^* |110 > <1r0| + \Delta |1r0 > <1r0|$$

14. r10 : A
$$|rr0> < r10| + A^* |110> < r10| + \Delta |r10> < r10|$$

15. rr0:
$$A^* |1r0> < rr0| + A^* |r10> < rr0| + (2 \Delta + V (d)^{-0}) |rr0> < rr0|$$

16. **011** : A |**0r1**> <**011**| + A |**01r**> <**011**|

17. 0r1 : A $|rr0 > < 0r1| + A^* |011 > < 0r1| + \Delta |0r1 > < 0r1|$

18. 01r: A $|rr0><01r| + A^* |011><01r| + \Delta |01r><01r|$

19. 0rr: $A^* |0r1\rangle < 0rr| + A^* |01r\rangle < 0rr| + (2 \Delta + V (d)^{-0}) |0rr\rangle < 0rr|$

20. 111 : A |r11> <111| + A |1r1> <111| + A |11r> <111|

21. 1r1 : A $|rr1 > < 1r1| + A |1rr > < 1r1| + A* |111 > < 1r1| + \Delta |1r1 > < 1r1|$

22. r11 : A $|rr1> < r11| + A |r1r> < r11| + A* |111> < r11| + <math>\Delta |r11> < r11|$

23. 11r: A $|r1r\rangle < 11r| + A |1rr\rangle < 11r| + A* |111\rangle < 11r| + \Delta |11r\rangle < 11r|$

24. r1r: A $|rrr> < r1r| + A* |11r> < r1r| + A* |r11> < r1r| + (2 <math>\Delta$ + V (2d) -0) |r1r> < r1r|

25. rr1 : A $|rrr> < rr1| + A* |1r1> < rr1| + A* |r11> < rr1| + (2 <math>\Delta$ + V (d) $^{-0}$) |rr1| > < rr1|

26. 1rr : A $|rrr> <1rr| + A^* |11r> <1rr| + A^* |1r1> <1rr| + (2 <math>\Delta$ + V (d) $^{-0}$) |1rr> <1rr|

27. rrr: $A^* |r1r\rangle < rrr| + A^* |rr1\rangle < rrr| + A^* |1rr\rangle < rrr| +$ $(3 \Delta + V ((2d)^{-0} + 2 (d)^{-0}) |rrr\rangle < rrr|$