**Quantum Numbers – Formula Sheet:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
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|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **1** | 0 | 0 | **1s** |  | 1 | **1** | 2 | **2** |
|  |  |  |  |  |  |  |  |  |
| **2** | 0 | 0 | **2s** |  | 1 | **4** | 2 | **8** |
| 1 | -1, 0, +1 | **2p** |  | 3 | 6 |
|  |  |  |  |  |  |  |  |  |
| **3** | 0 | 0 | **3s** |  | 1 | **9** | 2 | **18** |
| 1 | -1, 0, +1 | **3p** |  | 3 | 6 |
| 2 | -2, -1, 0, +1, +2 | **3d** |  | 5 | 10 |
|  |  |  |  |  |  |  |  |  |
| **4** | 0 | 0 | **4s** |  | 1 | **16** | 2 | **32** |
| 1 | -1, 0, +1 | **4p** |  | 3 | 6 |
| 2 | -2, -1, 0, +1, +2 | **4d** |  | 5 | 10 |
| 3 | -3, -2, -1, 0, +1, +2, +3 | **4f** |  | 7 | 14 |
|  |  |  |  |  |  |  |  |  |
| **5** | 0 | 0 | **5s** |  | 1 | **25** | 2 | **50** |
| 1 | -1, 0, +1 | **5p** |  | 3 | 6 |
| 2 | -2, -1, 0, +1, +2 | **5d** |  | 5 | 10 |
| 3 | -3, -2, -1, 0, +1, +2, +3 | **5f** |  | 7 | 14 |
| 4 | -4, -3, -2, -1, 0, +1, +2, +3, +4 | **5g** |  | 9 | 18 |
|  |  |  |  |  |  |  |  |  |