**Summary of Structures**

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Gross Structure** | **Elementary** | **Proto-Matter** | **Mezzo-Matter** | **Infra-Matter** |
| Nucleus | Up quark  (not present in neutron)  Down quark  (not present in proton)  Up/Down diquark  Photon-like shell (not present in neutron) | Graviton: +1s,-1s,+1p,-1p  Proto-pion: 4g  Proto-up: 2s  Graviton: +1s,-1s,+1p,-1p  Proto-photon: 3s  Proto-pion: 4g  Proto-down: 2s  Graviton: +1s,-1s,+1p,-1p  Proto-photon: 3s (Present if paired to down)    Proto-pion: 4g  Proto-up: 2s  Proto-down 2s  Graviton: +1s,-1s  Proto-photon: 2s up (3z total bits) | ---  Charge Tachyon: 1s, 2s, 3s, 4s (3+, 1-)  Charge Tardyon: 1s, 2s, 3s, 4s (3-, 1+)  Color Tachyon: 3@1p  Color Tardyon: 3@1p  ---  Charge Tachyon: 1s,2s,3s,4s,5s,6s,7s (4-, 3+)  Charge Tardyon: 1s,2s,3s,4s,5s,6s,7s (4+, 3-)  Color Tachyon: 3@1p,3@2p  Color Tardyon: 3@1p,3@2p  ---  Charge Tachyon: 1s, 2s, 3s, 4s (3+, 1-)  Charge Tardyon: 1s, 2s, 3s, 4s (3-, 1+)  Color Tachyon: 3@1p  Color Tardyon: 3@1p    Charge Tachyon: 1s,2s,3s,4s,5s,6s,7s (4-, 3+)  Charge Tardyon: 1s,2s,3s,4s,5s,6s,7s (4+, 3-)  Color Tachyon: 3@1p,3@2p  Color Tardyon: 3@1p,3@2p  --- | ---  IP Luxon: 1s, 2s, 3s, 4s, 3@1p  IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  IP Luxon: 1s  IP Tachyon: 1s  IP Luxon: 1s, 2s, 3s, 4s, 3@1p  IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  IP Luxon: 1s  IP Tachyon: 1s  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  Each: IP Luxon: -1s  Each: IP Tachyon: +1s |
|  | Lepton #1: Electron | Graviton: +1s,-1s  Proto-photon: -2s,2@3s  Proto-electron: +2s | ---  Charge Tachyon: -1s, -2s, -3s  Charge Tardyon: +1s, +2s, +3s | ---  Each: IP Luxon: -1s  Each: IP Tachyon: +1s  ---  Each: IP Luxon: -1s  Each: IP Tachyon: +1s |
|  | Electron Neutrino | Graviton: +1s, -1s  Proto-photon: +2s, -3s | --- | ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s |
|  | Positron Neutrino | Graviton: +1s, -1s  Proto-photon: -2s, +3s | --- | ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s |
|  | Lepton #2: Muon | Graviton: +1s, -1s  Proto-photon: 2@2s,-4s  Proto-muon: +3s | ---  Charge Tachyon: -1s, -2s, -3s, -4s, +4s  Charge Tardyon: +1s, +2s, +3s, -5s, +5s  Color Tachyon: 3@1p  Color Tardyon: 3@1p | ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: -1s  Each: IP Tachyon: +1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p |
|  | Lepton #3: ? | Graviton: +1s,- 1s  Proto-photon: 2@2s,-5s ?  Proto-tauon: +3s ? | ---  Charge Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s (6-,3+)  Charge Tardyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s (9+,6-)  Color Tachyon: 3@1p, 3@2p, 3@3p  Color Tardyon: 3@1p, 3@2p, 3@3p | ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p |
|  | Lepton #4:  Tauon ? | Graviton: +1s,- 1s  Proto-photon: 2@2s,-6s ?  Proto-tauon: +4s ? | ---  Charge Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s (8-,5+)  Charge Tardyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s (8+,5-)  Color Tachyon: 3@1p, 3@2p, 3@3p, 3@4p, 5@2d  Color Tardyon: 3@1p, 3@2p, 3@3p, 3@4p  Mezzo-d Tardyon 5@2d | ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Luxon 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s, 3@1p,3@2p,3@3p,5@2d  Each: IP Tachyon 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s, 3@1p,3@2p,3@3p,5@2d |
|  | Lepton #5: ? | Graviton: +1s,- 1s  Proto-photon: 2@2s,-7s ?  Proto-tauon: +4s ? | ---  Charge Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s, 12s,13s,14s,15s,16s,17s (10-,7+)  Charge Tardyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s, 12s,13s,14s,15s,16s,17s (10+,7-)  Color Tachyon: 3@1p, 3@2p, 3@3p, 3@4p,3@5p, 5@2d,5@3d  Color Tardyon: 3@1p,3@2p,3@3p,3@4p,3@5p  Mezzo-d Tardyon 5@2d,5@3d | ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Luxon 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 3@1p,3@2p,3@3p,5@2d  Each: IP Tachyon 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s, 3@1p,3@2p,3@3p,5@2d |
|  | Lepton #6: ? | Graviton: +1s,- 1s  Proto-photon: 2@2s,-8s ?  Proto-tauon: +5s ? | ---  Charge Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s, 12s,13s,14s,15s,16s,17s,18s,19s,20s,21s (12-,9+)  Charge Tardyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s, 12s,13s,14s,15s,16s,17s,18s,19s,20s,21s (12+,9-)  Color Tachyon: 3@1p, 3@2p, 3@3p, 3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d,5@4d, 7@3f  Color Tardyon: 3@1p, 3@2p, 3@3p, 3@4p,3@5p, 3@6p,3@7p  Mezzo-d Tardyon 5@2d,5@3d,5@4d  Mezzo-f Tardyon 7@3f | ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Luxon 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 3@1p,3@2p,3@3p,5@2d  Each: IP Tachyon 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s, 3@1p,3@2p,3@3p,5@2d  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s,12s,13s,14s,15s, 16s,17s,18s,19s,20s,21s,22s, 3@1p,3@2p,3@3p,3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d, 5@4d, 7@3f  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s,15s, 16s,17s,18s,19s,20s,21s,22s, 3@1p,3@2p,3@3p, 3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d, 5@4d, 7@3f |
|  | Photon | Graviton: +1s, -1s  Proto-photon: 2@2s, 2@3s | --- | ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s |
|  | 1st Negron | Graviton: +1s, -1s  Proto-Down: +2s, -2s  Proto-Up: 3s | ---  Charge Tachyon: 1s,2s,3s,4s,5s,6s,7s (4-, 3+)  Charge Tardyon: 1s,2s,3s,4s,5s,6s,7s (4+, 3-)  Color Tachyon: 3@1p,3@2p  Color Tardyon: 3@1p,3@2p  Charge Tachyon: 1s, 2s, 3s, 4s (3+, 1-)  Charge Tardyon: 1s, 2s, 3s, 4s (3-, 1+)  Color Tachyon: 3@1p  Color Tardyon: 3@1p | ---  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p |
|  | Quark #1: Up | Graviton: +1s,-1s,+1p,-1p  Proto-photon: 2s,3s  Proto-pion: 4g  Proto-Up: 2s | ---  Charge Tachyon: 1s, 2s, 3s, 4s (3+, 1-)  Charge Tardyon: 1s, 2s, 3s, 4s (3-, 1+)  Color Tachyon: 3@1p  Color Tardyon: 3@1p | ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  IP Luxon: 1s, 2s, 3s, 4s, 3@1p  IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p |
|  | Quark #2: Down | Graviton: +1s,-1s,+1p,-1p  Proto-photon: +2s  Proto-pion: 4g  Proto-down: -2s | ---  Charge Tachyon: 1s,2s,3s,4s,5s,6s,7s (4-, 3+)  Charge Tardyon: 1s,2s,3s,4s,5s,6s,7s (4+, 3-)  Color Tachyon: 3@1p,3@2p  Color Tardyon: 3@1p,3@2p | ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  IP Luxon: 1s, 2s, 3s, 4s, 3@1p  IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p |
|  | Quark #3: Strange | Graviton: +1s,-1s,+1p,-1p  Proto-photon: +2s  Proto-pion: 4g  Proto-strange: -2s | ---  Charge Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s (6-, 5+)  Charge Tardyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s (6+, 5-)  Color Tachyon: 3@1p, 3@2p, 3@3p, 5@2d  Color Tardyon: 3@1p, 3@2p, 3@3p  Mezzo-d Tardyon 5@2d | ---  IP Luxon: 1s  IP Tachyon: 1s  IP Luxon: 1s, 2s, 3s, 4s, 3@1p  IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Luxon 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s, 3@1p,3@2p,3@3p, 5@2d  Each: IP Tachyon 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s, 3@1p,3@2p,3@3p, 5@2d |
|  | Quark #4:  Charm ? | Graviton: +1s,-1s,+1p,-1p  Proto-photon: 2s,3s  Proto-pion: 4g  Proto-charm: -2s | ---  Charge Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s, 12s,13s,14s,15s,16s (9+, 7-)  Charge Tardyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s, 12s,13s,14s,15s,16s (9-, 7+)  Color Tachyon: 3@1p,3@2p,3@3p,3@4p,3@5p, 5@2d,5@3d  Color Tardyon: 3@1p,3@2p,3@3p,3@4p,3@5p  Mezzo-d Tardyon: 5@2d,5@3d | ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  IP Luxon: 1s, 2s, 3s, 4s, 3@1p  IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Luxon 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s, 3@1p,3@2p,3@3p, 5@2d  Each: IP Tachyon 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s, 3@1p,3@2p,3@3p, 5@2d |
|  | Quark #5:  Charm ? | Graviton: +1s,-1s,+1p,-1p  Proto-photon: 2s,3s  Proto-pion: 4g  Proto-charm: -2s | ---  Charge Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s, 12s,13s,14s,15s,16s,17s,18s,19s,20s,21s,22s (12+, 10-)  Charge Tardyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s, 12s,13s,14s,15s,16s,17s,18s,19s,20s,21s,22s (12-, 10+)  Color Tachyon: 3@1p,3@2p,3@3p,3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d,5@4d, 7@3f  Color Tardyon: 3@1p,3@2p,3@3p,3@4p,3@5p, 3@6p,3@7p  Mezzo-d Tardyon: 5@2d,5@3d,5@4d  Mezzo-f Tardyon: 7@3f | ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  IP Luxon: 1s, 2s, 3s, 4s, 3@1p  IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Luxon 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s, 3@1p,3@2p,3@3p, 5@2d  Each: IP Tachyon 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s, 3@1p,3@2p,3@3p, 5@2d  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s, 3@1p,3@2p,3@3p,3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d,5@4d, 7@3f  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s, 13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s, 3@1p,3@2p,3@3p,3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d, 5@4d, 7@3f |
|  | Quark #6: Beauty (or Bottom) ? | Graviton: +1s,-1s,+1p,-1p  Proto-photon: -3s  Proto-Pion: 4g  Proto-beauty: +2s | ---  Charge Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s, 14s,15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s, 28s,29s (15-, 14+)  Charge Tardyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s, 14s,15s,16s,17s,18s,19s,20s,21s,22s,23s, 24s,25s,26s,27s, 28s,29s (15+, 14-)  Color Tachyon: 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p, 5@2d,5@3d, 5@4d,5@5d, 7@3f, 7@4f  Color Tardyon: 3@1p,3@2p,3@3p,3@4p,3@5p, 3@6p,3@7p,3@8p,3@9p  Mezzo-d Tardyon: 5@2d,5@3d,5@4d,5@5d  Mezzo-f Tardyon: 7@3f,7@4f | ---  IP Luxon: 1s  IP Tachyon: 1s  IP Luxon: 1s, 2s, 3s, 4s, 3@1p  IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Luxon 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 3@1p,3@2p,3@3p, 5@2d  Each: IP Tachyon 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 3@1p,3@2p,3@3p, 5@2d  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s,15s, 16s,17s,18s,19s,20s,21s,22s, 3@1p,3@2p,3@3p, 3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d,5@4d, 7@3f  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s,15s, 16s,17s,18s,19s,20s,21s,22s, 3@1p,3@2p,3@3p,3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d,5@4d, 7@3f |
|  | Quark #7: Beauty (or Bottom) ? | Graviton: +1s,-1s,+1p,-1p  Proto-photon: -3s  Proto-Pion: 4g  Proto-beauty: +2s | ---  Charge Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s, 14s,15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s, 28s,29s,30s,31s,32s,33s,34s,35s, 36s,37s (19-, 18+)  Charge Tardyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s, 14s,15s,16s,17s,18s,19s,20s,21s,22s,23s, 24s,25s,26s,27s, 28s,29s,30s,31s,32s,33s,34s,35s, 36s,37s (19+, 18-)  Color Tachyon: 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 5@2d,5@3d, 5@4d,5@5d,5@6d,5@7d, 7@3f, 7@4f,7@5f, 9@4g  Color Tardyon: 3@1p,3@2p,3@3p,3@4p,3@5p, 3@6p,3@7p,3@8p,3@9p,3@10p,3@11p,3@12p  Mezzo-d Tardyon: 5@2d,5@3d,5@4d,5@5d, 5@6d, 5@7d  Mezzo-f Tardyon: 7@3f,7@4f,7@5f  Mezzo-g Tardyon: 9@4g  (Variants with net hue exist: they have 1 to 3 additional proto-hue (g) pieces, each with a structure similar to this. These tinted Beauties can only bind to tinted quarks: Beauty, anti-Beauty, Truth, or anti-Truth, etc.). | ---  IP Luxon: 1s  IP Tachyon: 1s  IP Luxon: 1s, 2s, 3s, 4s, 3@1p  IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Luxon 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 3@1p,3@2p,3@3p, 5@2d  Each: IP Tachyon 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 3@1p,3@2p,3@3p, 5@2d  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s,15s, 16s,17s,18s,19s,20s,21s,22s, 3@1p,3@2p,3@3p, 3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d,5@4d, 7@3f  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s,15s, 16s,17s,18s,19s,20s,21s,22s, 3@1p,3@2p,3@3p,3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d,5@4d, 7@3f  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s,15s, 16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s,31s,32s, 33s,34s,35s,36s,37s, 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p,3@7p, 3@8p,3@9p,3@10p,3@11p,3@12p, 5@2d,5@3d,5@4d,5@5d, 5@6d,5@7d, 7@3f,7@4f,7@5f, 9@4g  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s,15s, 16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s,31s,32s, 33s,34s,35s,36s,37s, 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p,3@7p, 3@8p,3@9p,3@10p,3@11p,3@12p, 5@2d,5@3d,5@4d,5@5d, 5@6d,5@7d, 7@3f,7@4f,7@5f, 9@4g |
|  | Quark #8: Truth (or Top) ? | Graviton: +1s,-1s,+1p,-1p  Proto-photon: 2s,3s  Proto-Pion: 4g  Proto-truth: 2s | ---  Charge Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s, 14s,15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s, 28s,29s,30s,31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s, 42s,43s,44s,45s,46s (29+, 27-)  Charge Tardyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s, 14s,15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s, 28s,29s,30s,31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s, 42s,43s,44s,45s,46s (29-, 27+)  Color Tachyon: 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p,3@13p,3@14p, 3@15p, 5@2d,5@3d,5@4d,5@5d, 5@6d,5@7d,5@8d, 5@9d, 7@3f,7@4f, 7@5f,7@6f, 9@4g,9@5g  Color Tardyon: 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p,3@13p,3@14p, 3@15p,3@16p,3@17p,3@18p  Mezzo-d Tardyon: 5@2d,5@3d,5@4d,5@5d, 5@6d,5@7d,5@8d, 5@9d  Mezzo-f Tardyon: 7@3f,7@4f,7@5f,7@6f  Mezzo-g Tardyon: 9@4g,9@5g  (Variants with net hue exist: they have 1 to 3 additional proto-hue (g) pieces, each with a structure similar to this. These tinted Truths can only bind to tinted quarks: Beauty, anti-Beauty, Truth, or anti-Truth). | ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  IP Luxon: 1s, 2s, 3s, 4s, 3@1p  IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Luxon 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 3@1p,3@2p,3@3p,5@2d  Each: IP Tachyon 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 3@1p,3@2p,3@3p,5@2d  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s,  15s,16s,17s,18s,19s,20s,21s,22s, 3@1p,3@2p,3@3p, 3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d, 5@4d, 7@3f  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s, 19s,20s,21s,22s, 3@1p,3@2p,3@3p, 3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d, 5@4d, 7@3f  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 12s,13s,14s, 15s,16s,17s,18s, 19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s, 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 5@2d,5@3d,5@4d, 5@5d, 5@6d,5@7d, 7@3f,7@4f,7@5f, 9@4g  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s, 19s,20s,21s,22s,23s, 24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s, 36s,37s,3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 5@2d,5@3d,5@4d, 5@5d,5@6d,5@7d, 7@3f,7@4f,7@5f, 9@4g |
|  | Quark #9: Truth (or Top) ? | Graviton: +1s,-1s,+1p,-1p  Proto-photon: 2s,3s  Proto-Pion: 4g  Proto-truth: 2s | ---  Charge Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s, 14s,15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s, 28s,29s,30s,31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s, 42s,43s,44s,45s,46s,47s,48s,49s,50s,51s,52s,53s,54s,55s, 56s (29+, 27-)  Charge Tardyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s, 14s,15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s, 28s,29s,30s,31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s, 42s,43s,44s,45s,46s,47s,48s,49s,50s,51s,52s,53s,54s,55s, 56s (29-, 27+)  Color Tachyon: 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p,3@13p,3@14p, 3@15p,3@16p,3@17p,3@18p, 5@2d,5@3d,5@4d,5@5d, 5@6d,5@7d,5@8d, 5@9d,5@10d,5@11d, 7@3f,7@4f, 7@5f,7@6f, 7@7f,7@8f, 9@4g,9@5g,9@6g, 11@5h  Color Tardyon: 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p,3@13p,3@14p, 3@15p,3@16p,3@17p,3@18p  Mezzo-d Tardyon: 5@2d,5@3d,5@4d,5@5d, 5@6d,5@7d,5@8d, 5@9d,5@10d,5@11d  Mezzo-f Tardyon: 7@3f,7@4f,7@5f,7@6f, 7@7f,7@8f  Mezzo-g Tardyon: 9@4g,9@5g,9@6g  (Variants with net hue exist: they have 1 to 3 additional proto-hue (g) pieces, each with a structure similar to this. These tinted Truths can only bind to tinted quarks: Beauty, anti-Beauty, Truth, or anti-Truth).  Mezzo-h Tardyon: 11@5h | ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  IP Luxon: 1s, 2s, 3s, 4s, 3@1p  IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Luxon 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 3@1p,3@2p,3@3p,5@2d  Each: IP Tachyon 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 3@1p,3@2p,3@3p,5@2d  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s,  15s,16s,17s,18s,19s,20s,21s,22s, 3@1p,3@2p,3@3p, 3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d, 5@4d, 7@3f  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s, 19s,20s,21s,22s, 3@1p,3@2p,3@3p, 3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d, 5@4d, 7@3f  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 12s,13s,14s, 15s,16s,17s,18s, 19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s, 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 5@2d,5@3d,5@4d, 5@5d, 5@6d,5@7d, 7@3f,7@4f,7@5f, 9@4g  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s, 19s,20s,21s,22s,23s, 24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s, 36s,37s,3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 5@2d,5@3d,5@4d, 5@5d,5@6d,5@7d, 7@3f,7@4f,7@5f, 9@4g  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 12s,13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s,42s,43s,44s,45s,46s, 47s,48s, 49s,50s,51s,52s,53s,54s,55s,56s, 3@1p,3@2p,3@3p, 3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 3@13p,3@14p,3@15p,3@16p,3@17p, 3@18p, 5@2d,5@3d,5@4d, 5@5d,5@6d, 5@7d,5@8d, 5@9d,5@10d,5@11d, 7@3f,7@4f, 7@5f,7@6f,7@7f,7@8f, 9@4g,9@5g,9@6g, 11@5h  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 12s,13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s,42s,43s,44s,45s,46s, 47s,48s, 49s,50s,51s,52s,53s,54s,55s,56s, 3@1p,3@2p,3@3p, 3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 3@13p,3@14p,3@15p,3@16p,3@17p, 3@18p, 5@2d,5@3d,5@4d, 5@5d,5@6d, 5@7d,5@8d, 5@9d,5@10d,5@11d, 7@3f, 7@4f, 7@5f,7@6f, 7@7f,7@8f, 9@4g,9@5g,9@6g, 11@5h |
|  | Quark #10: Foolish ? | Graviton: +1s,-1s,+1p,-1p  Proto-photon: 2s  Proto-Pion: 4g  Proto-foolish: -2s | ---  Charge Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s, 14s,15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s, 28s,29s,30s,31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s, 42s,43s,44s,45s,46s,47s,48s,49s,50s,51s,52s,53s,54s,55s, 56s,57s,58s,59s, 60s,61s,62s,63s,64s,65s,66s,67s (34-, 33+)  Charge Tardyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s, 14s,15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s, 28s,29s,30s,31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s, 42s,43s,44s,45s,46s,47s,48s,49s,50s,51s,52s,53s,54s,55s, 56s,57s,58s,59s,60s,61s,62s,63s,64s,65s,66s,67s (34+, 33-)  Color Tachyon: 3@1p,3@2p,3@3p,3@4p,3@5p, 3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p,3@13p,3@14p, 3@15p,3@16p,3@17p,3@18p,3@19p,3@20p,3@21p, 3@22p, 5@2d,5@3d, 5@4d,5@5d,5@6d,5@7d,5@8d, 5@9d,5@10d,5@11d, 5@12d, 5@13d, 7@3f,7@4f,7@5f, 7@6f,7@7f,7@8f,7@9f, 9@4g,9@5g,9@6g, 9@7g, 11@5h,11@6h  Color Tardyon: 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 3@13p, 3@14p,3@15p,3@16p,3@17p,3@18p, 3@19p,3@20p, 3@21p,3@22p  Mezzo-d Tardyon: 5@2d,5@3d,5@4d,5@5d, 5@6d,5@7d,5@8d, 5@9d,5@10d,5@11d,5@12d, 5@13d  Mezzo-f Tardyon: 7@3f,7@4f,7@5f,7@6f, 7@7f,7@8f,7@9f  Mezzo-g Tardyon: 9@4g,9@5g,9@6g,9@7g  (Variants with net hue exist: they have 1 to 3 additional proto-hue (g) pieces, each with a structure similar to this. These tinted Fools can only bind to tinted quarks: Beauty, anti-Beauty, Truth, or anti-Truth, etc.).  Mezzo-h Tardyon: 11@5h, 11@6h | ---  IP Luxon: 1s  IP Tachyon: 1s  IP Luxon: 1s, 2s, 3s, 4s, 3@1p  IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Luxon 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 3@1p,3@2p,3@3p,5@2d  Each: IP Tachyon 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 3@1p,3@2p,3@3p,5@2d  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s,  15s,16s,17s,18s,19s,20s,21s,22s, 3@1p,3@2p,3@3p, 3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d, 5@4d, 7@3f  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s, 19s,20s,21s,22s, 3@1p,3@2p,3@3p, 3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d, 5@4d, 7@3f  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 12s,13s,14s, 15s,16s,17s,18s, 19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s, 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p,5@2d,5@3d,5@4d, 5@5d, 5@6d,5@7d, 7@3f, 7@4f,7@5f, 9@4g  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s, 19s,20s,21s,22s,23s, 24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s, 36s,37s,3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 5@2d,5@3d,5@4d, 5@5d,5@6d,5@7d, 7@3f, 7@4f,7@5f, 9@4g  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 12s,13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s,42s,43s,44s,45s,46s, 47s,48s, 49s,50s,51s,52s,53s,54s,55s,56s, 3@1p,3@2p,3@3p, 3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 3@13p,3@14p,3@15p,3@16p,3@17p, 3@18p, 5@2d,5@3d,5@4d, 5@5d,5@6d, 5@7d,5@8d, 5@9d,5@10d,5@11d, 7@3f,7@4f, 7@5f,7@6f,7@7f,7@8f, 9@4g,9@5g,9@6g, 11@5h  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 12s,13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s,42s,43s,44s,45s,46s, 47s,48s, 49s,50s,51s,52s,53s,54s,55s,56s, 3@1p,3@2p,3@3p, 3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 3@13p,3@14p,3@15p,3@16p,3@17p, 3@18p, 5@2d,5@3d,5@4d, 5@5d,5@6d, 5@7d,5@8d, 5@9d,5@10d,5@11d, 7@3f, 7@4f, 7@5f,7@6f, 7@7f,7@8f, 9@4g,9@5g,9@6g, 11@5h |
|  | Quark #11: Foolish ? | Graviton: +1s,-1s,+1p,-1p  Proto-photon: 2s  Proto-Pion: 4g  Graviton: 4g (up to 3 pairs, matching proto-hue)  Proto-Hue (g): 13q? (up to 3)  Proto-foolish: -2s | ---  ---  Charge Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s, 14s,15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s, 28s,29s,30s,31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s, 42s,43s,44s,45s,46s,47s,48s,49s,50s,51s,52s,53s,54s,55s, 56s,57s,58s,59s, 60s,61s,62s,63s,64s,65s,66s,67s,68s,69s, 70s,71s, 72s,73s,74s,75s,76s,77s,78s,79s (40-, 39+)  Charge Tardyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s, 14s,15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s, 28s,29s,30s,31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s, 42s,43s,44s,45s,46s,47s,48s,49s,50s,51s,52s,53s,54s,55s, 56s,57s,58s,59s,60s,61s,62s,63s,64s,65s,66s,67s,68s,69s, 70s,71s, 72s,73s,74s,75s,76s,77s,78s,79s (40+, 39-)  Color Tachyon: 3@1p,3@2p,3@3p,3@4p,3@5p, 3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p,3@13p,3@14p, 3@15p,3@16p,3@17p,3@18p,3@19p,3@20p,3@21p, 3@22p,3@23p,3@24p, 3@25p,3@26p, 5@2d,5@3d, 5@4d,5@5d,5@6d,5@7d,5@8d, 5@9d,5@10d,5@11d, 5@12d, 5@13d,5@14d,5@15d, 7@3f,7@4f,7@5f,7@6f, 7@7f,7@8f,7@9f,7@10f,7@11f, 9@4g,9@5g,9@6g, 9@7g,9@8g, 11@5h,11@6h,11@7h, 13@6i  Color Tardyon: 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 3@13p, 3@14p,3@15p,3@16p,3@17p,3@18p, 3@19p,3@20p, 3@21p,3@22p,3@23p,3@24p, 3@25p,3@26p  Mezzo-d Tardyon: 5@2d,5@3d,5@4d,5@5d, 5@6d,5@7d,5@8d, 5@9d,5@10d,5@11d,5@12d, 5@13d,5@14d,5@15d  Mezzo-f Tardyon: 7@3f,7@4f,7@5f,7@6f, 7@7f,7@8f,7@9f,7@10f,7@11f  Mezzo-g Tardyon: 9@4g,9@5g,9@6g,9@7g, 9@8g  (Variants with net hue exist: they have 1 to 3 additional proto-hue (g) pieces, each with a structure similar to this. These tinted Fools can only bind to tinted quarks: Beauty, anti-Beauty, Truth, or anti-Truth, etc.).  Mezzo-h Tardyon: 11@5h, 11@6h, 11@7h  Mezzo-i Tardyon: 13@6i | ---  IP Luxon: 1s  IP Tachyon: 1s  IP Luxon: 1s, 2s, 3s, 4s, 3@1p  IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s,9s, 10s,11s, 12s,13s,14s, 15s,16s,17s,18s,19s, 20s,21s,22s,23s, 24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s, 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 5@2d,5@3d,5@4d, 5@5d,5@6d,5@7d, 7@3f, 7@4f,7@5f, 9@4g  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s, 10s,11s, 12s,13s,14s, 15s,16s,17s,18s,19s, 20s,21s,22s,23s, 24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s, 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 5@2d,5@3d,5@4d, 5@5d,5@6d,5@7d, 7@3f, 7@4f,7@5f, 9@4g  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Luxon 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 3@1p,3@2p,3@3p,5@2d  Each: IP Tachyon 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 3@1p,3@2p,3@3p,5@2d  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s,  15s,16s,17s,18s,19s,20s,21s,22s, 3@1p,3@2p,3@3p, 3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d, 5@4d, 7@3f  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s, 19s,20s,21s,22s, 3@1p,3@2p,3@3p, 3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d, 5@4d, 7@3f  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 12s,13s,14s, 15s,16s,17s,18s, 19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s, 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p,5@2d,5@3d,5@4d, 5@5d, 5@6d,5@7d, 7@3f, 7@4f,7@5f, 9@4g  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s, 19s,20s,21s,22s,23s, 24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s, 36s,37s,3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 5@2d,5@3d,5@4d, 5@5d,5@6d,5@7d, 7@3f, 7@4f,7@5f, 9@4g  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 12s,13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s,42s,43s,44s,45s,46s, 47s,48s, 49s,50s,51s,52s,53s,54s,55s,56s, 3@1p,3@2p,3@3p, 3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 3@13p,3@14p,3@15p,3@16p,3@17p, 3@18p, 5@2d,5@3d,5@4d, 5@5d,5@6d, 5@7d,5@8d, 5@9d,5@10d,5@11d, 7@3f,7@4f, 7@5f,7@6f,7@7f,7@8f, 9@4g,9@5g,9@6g, 11@5h  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 12s,13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s,42s,43s,44s,45s,46s, 47s,48s, 49s,50s,51s,52s,53s,54s,55s,56s, 3@1p,3@2p,3@3p, 3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 3@13p,3@14p,3@15p,3@16p,3@17p, 3@18p, 5@2d,5@3d,5@4d, 5@5d,5@6d, 5@7d,5@8d, 5@9d,5@10d,5@11d, 7@3f, 7@4f, 7@5f,7@6f, 7@7f,7@8f, 9@4g,9@5g,9@6g, 11@5h  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s,42s,43s,44s,45s,46s, 47s,48s,49s,50s,51s,52s,53s,54s,55s,56s,57s,58s,59s,60s,61s,62s, 63s,64s,65s,66s,67s,68s,69s,70s,71s,72s,73s,74s,75s,76s,77s,78s,  79s, 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p,3@7p,3@8p,3@9p, 3@10p,3@11p,3@12p, 3@13p,3@14p,3@15p,3@16p,3@17p, 3@18p, 3@19p,3@20p,3@21p,3@22p, 3@23p,3@24p,3@25p, 3@26p, 5@2d,5@3d,5@4d,5@5d,5@6d,5@7d, 5@8d,5@9d, 5@10d,5@11d,5@12d, 5@13d,5@14d,5@15d, 7@3f,7@4f, 7@5f,7@6f, 7@7f,7@8f, 7@9f,7@10f,7@11f, 9@4g,9@5g, 9@6g,9@7g,9@8g, 11@5h,11@6h,11@7h, 13@6i  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s,42s,43s,44s,45s,46s, 47s,48s,49s,50s,51s,52s,53s,54s,55s,56s,57s,58s,59s,60s,61s,62s, 63s,64s,65s,66s,67s,68s,69s,70s,71s,72s,73s,74s,75s,76s,77s,78s,  79s, 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p,3@7p,3@8p,3@9p, 3@10p,3@11p,3@12p, 3@13p,3@14p,3@15p,3@16p,3@17p, 3@18p, 3@19p,3@20p,3@21p,3@22p, 3@23p,3@24p,3@25p, 3@26p, 5@2d,5@3d,5@4d,5@5d,5@6d,5@7d,5@8d,5@9d, 5@10d,5@11d,5@12d, 5@13d,5@14d,5@15d, 7@3f,7@4f, 7@5f,7@6f,7@7f,7@8f,7@9f,7@10f,7@11f, 9@4g,9@5g, 9@6g,9@7g,9@8g, 11@5h,11@6h,11@7h, 13@6i |
|  | Quark #12:  Insane ? | Graviton: +1s,-1s,+1p,-1p  Proto-photon: 2s,3s  Proto-Pion: 4g  Proto-insane: 2s | ---  Charge Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s, 14s,15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s, 28s,29s,30s,31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s, 42s,43s,44s,45s,46s,47s,48s,49s,50s,51s,52s,53s,54s,55s, 56s,57s,58s,59s,60s,61s,62s,63s,64s,65s,66s,67s,68s,69s, 70s,71s,72s,73s,74s,75s,76s,77s,78s,79s,80s,81s,82s,83s, 84s,85s,86s,87s,88s,89s,90s,91s,92s (45-, 47+)  Charge Tardyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s, 14s,15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s, 28s,29s,30s,31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s, 42s,43s,44s,45s,46s,47s,48s,49s,50s,51s,52s,53s,54s,55s, 56s,57s,58s,59s,60s,61s,62s,63s,64s,65s,66s,67s,68s,69s, 70s,71s, 72s,73s,74s,75s,76s,77s,78s,79s,80s,81s,82s,83s, 84s,85s,86s,87s,88s,89s,90s,91s,92s (45+, 47-)  Color Tachyon: 3@1p,3@2p,3@3p,3@4p,3@5p, 3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p,3@13p,3@14p, 3@15p,3@16p,3@17p,3@18p,3@19p,3@20p,3@21p, 3@22p,3@23p,3@24p,3@25p,3@26p,3@27p,3@28p, 3@29p,3@30p, 5@2d,5@3d, 5@4d,5@5d,5@6d,5@7d, 5@8d,5@9d, 5@10d,5@11d,5@12d,5@13d,5@14d, 5@15d,5@16d, 5@17d,5@18d, 7@3f,7@4f,7@5f, 7@6f,7@7f,7@8f,7@9f,7@10f,7@11f,7@12f,7@13f, 9@4g,9@5g,9@6g, 9@7g,9@8g,9@9g, 9@10g, 11@5h,11@6h,11@7h,11@8h, 13@6i,13@7i  Color Tardyon: 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p,3@13p,3@14p, 3@15p,3@16p,3@17p,3@18p, 3@19p,3@20p,3@21p, 3@22p,3@23p,3@24p,3@25p,3@26p,3@27p,3@28p, 3@29p,3@30p  Mezzo-d Tardyon: 5@2d,5@3d,5@4d,5@5d,5@6d,5@7d, 5@8d, 5@9d,5@10d,5@11d,5@12d,5@13d,5@14d, 5@15d,5@16d,5@17d,5@18d  Mezzo-f Tardyon: 7@3f,7@4f,7@5f,7@6f,7@7f,7@8f, 7@9f,7@10f,7@11f,7@12f,7@13f  Mezzo-g Tardyon: 9@4g,9@5g,9@6g,9@7g,9@8g,9@9g, 9@10g  (Variants with net hue exist: they have 1 to 3 additional proto-hue (g) pieces, each with a structure similar to this. These tinted Insane Quarks can only bind to tinted quarks: Beauty, anti-Beauty, Truth, or anti-Truth, etc.).  Mezzo-h Tardyon: 11@5h, 11@6h, 11@7h,11@8h  Mezzo-i Tardyon: 13@6i,13@7i | ---  IP Luxon: 1s  IP Tachyon: 1s  IP Luxon: 1s, 2s, 3s, 4s, 3@1p  IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Luxon 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 3@1p,3@2p,3@3p,5@2d  Each: IP Tachyon 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 3@1p,3@2p,3@3p,5@2d  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s,  15s,16s,17s,18s,19s,20s,21s,22s, 3@1p,3@2p,3@3p, 3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d, 5@4d, 7@3f  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s, 19s,20s,21s,22s, 3@1p,3@2p,3@3p, 3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d, 5@4d, 7@3f  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 12s,13s,14s, 15s,16s,17s,18s, 19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s, 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p,5@2d,5@3d,5@4d, 5@5d, 5@6d,5@7d, 7@3f, 7@4f,7@5f, 9@4g  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s, 19s,20s,21s,22s,23s, 24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s, 36s,37s,3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 5@2d,5@3d,5@4d, 5@5d,5@6d,5@7d, 7@3f, 7@4f,7@5f, 9@4g  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 12s,13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s,42s,43s,44s,45s,46s, 47s,48s, 49s,50s,51s,52s,53s,54s,55s,56s, 3@1p,3@2p,3@3p, 3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 3@13p,3@14p,3@15p,3@16p,3@17p, 3@18p, 5@2d,5@3d,5@4d, 5@5d,5@6d, 5@7d,5@8d, 5@9d,5@10d,5@11d, 7@3f,7@4f, 7@5f,7@6f,7@7f,7@8f, 9@4g,9@5g,9@6g, 11@5h  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 12s,13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s,42s,43s,44s,45s,46s, 47s,48s, 49s,50s,51s,52s,53s,54s,55s,56s, 3@1p,3@2p,3@3p, 3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 3@13p,3@14p,3@15p,3@16p,3@17p, 3@18p, 5@2d,5@3d,5@4d, 5@5d,5@6d, 5@7d,5@8d, 5@9d,5@10d,5@11d, 7@3f, 7@4f, 7@5f,7@6f, 7@7f,7@8f, 9@4g,9@5g,9@6g, 11@5h  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s,42s,43s,44s,45s,46s, 47s,48s,49s,50s,51s,52s,53s,54s,55s,56s,57s,58s,59s,60s,61s,62s, 63s,64s,65s,66s,67s,68s,69s,70s,71s,72s,73s,74s,75s,76s,77s,78s,  79s, 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p,3@7p,3@8p,3@9p, 3@10p,3@11p,3@12p, 3@13p,3@14p,3@15p,3@16p,3@17p, 3@18p, 3@19p,3@20p,3@21p,3@22p, 3@23p,3@24p,3@25p, 3@26p, 5@2d,5@3d,5@4d,5@5d,5@6d,5@7d, 5@8d,5@9d, 5@10d,5@11d,5@12d, 5@13d,5@14d,5@15d, 7@3f,7@4f, 7@5f,7@6f, 7@7f,7@8f, 7@9f,7@10f,7@11f, 9@4g,9@5g, 9@6g,9@7g,9@8g, 11@5h,11@6h,11@7h, 13@6i  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s,42s,43s,44s,45s,46s, 47s,48s,49s,50s,51s,52s,53s,54s,55s,56s,57s,58s,59s,60s,61s,62s, 63s,64s,65s,66s,67s,68s,69s,70s,71s,72s,73s,74s,75s,76s,77s,78s,  79s, 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p,3@7p,3@8p,3@9p, 3@10p,3@11p,3@12p, 3@13p,3@14p,3@15p,3@16p,3@17p, 3@18p, 3@19p,3@20p,3@21p,3@22p, 3@23p,3@24p,3@25p, 3@26p, 5@2d,5@3d,5@4d,5@5d,5@6d,5@7d,5@8d,5@9d, 5@10d,5@11d,5@12d, 5@13d,5@14d,5@15d, 7@3f,7@4f, 7@5f,7@6f,7@7f,7@8f,7@9f,7@10f,7@11f, 9@4g,9@5g, 9@6g,9@7g,9@8g, 11@5h,11@6h,11@7h, 13@6i |
|  | Quark #13:  Insane ? | Graviton: +1s,-1s,+1p,-1p  Proto-photon: 2s,3s  Proto-Pion: 4g  Proto-insane: 2s | ---  Charge Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s, 14s,15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s, 28s,29s,30s,31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s, 42s,43s,44s,45s,46s,47s,48s,49s,50s,51s,52s,53s,54s,55s, 56s,57s,58s,59s,60s,61s,62s,63s,64s,65s,66s,67s,68s,69s, 70s,71s,72s,73s,74s,75s,76s,77s,78s,79s,80s,81s,82s,83s, 84s,85s,86s,87s,88s,89s,90s,91s,92s,93s,94s,95s,96s,97s, 98s,99s,100s,101s,102s,103s,104s,105s,106s (52-, 54+)  Charge Tardyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s, 14s,15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s, 28s,29s,30s,31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s, 42s,43s,44s,45s,46s,47s,48s,49s,50s,51s,52s,53s,54s,55s, 56s,57s,58s,59s,60s,61s,62s,63s,64s,65s,66s,67s,68s,69s, 70s,71s, 72s,73s,74s,75s,76s,77s,78s,79s,80s,81s,82s,83s, 84s,85s,86s,87s,88s,89s,90s,91s,92s,93s,94s,95s,96s,97s, 98s,99s,100s,101s,102s,103s,104s,105s,106s (52+, 54-)  Color Tachyon: 3@1p,3@2p,3@3p,3@4p,3@5p, 3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p,3@13p,3@14p, 3@15p,3@16p,3@17p,3@18p,3@19p,3@20p,3@21p, 3@22p,3@23p,3@24p,3@25p,3@26p,3@27p,3@28p, 3@29p,3@30p,3@31p,3@32p,3@33p,3@34p,3@35p,  5@2d,5@3d, 5@4d,5@5d,5@6d,5@7d,5@8d,5@9d, 5@10d,5@11d, 5@12d, 5@13d,5@14d,5@15d,5@16d, 5@17d,5@18d,5@19d,5@20d,5@21d, 7@3f,7@4f,7@5f, 7@6f,7@7f,7@8f,7@9f,7@10f,7@11f,7@12f,7@13f, 7@14f,7@15f, 9@4g,9@5g,9@6g, 9@7g,9@8g,9@9g, 9@10g,9@11g, 11@5h,11@6h,11@7h,11@8h,11@9h, 13@6i,13@7i, 13@8i, 15@7j  Color Tardyon: 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p,3@13p,3@14p, 3@15p,3@16p,3@17p,3@18p, 3@19p,3@20p,3@21p, 3@22p,3@23p,3@24p,3@25p,3@26p,3@27p,3@28p, 3@29p,3@30p,3@31p,3@32p,3@33p,3@34p,3@35p,  Mezzo-d Tardyon: 5@2d,5@3d,5@4d,5@5d,5@6d,5@7d, 5@8d, 5@9d,5@10d,5@11d,5@12d,5@13d,5@14d, 5@15d,5@16d,5@17d,5@18d,5@19d,5@20d,5@21d  Mezzo-f Tardyon: 7@3f,7@4f,7@5f,7@6f,7@7f,7@8f, 7@9f,7@10f,7@11f,7@12f,7@13f,7@14f,7@15f  Mezzo-g Tardyon: 9@4g,9@5g,9@6g,9@7g,9@8g,9@9g, 9@10g,9@11g  (Variants with net hue exist: they have 1 to 3 additional proto-hue (g) pieces, each with a structure similar to this. These tinted Insane Quarks can only bind to tinted quarks: Beauty, anti-Beauty, Truth, or anti-Truth, etc.).  Mezzo-h Tardyon: 11@5h, 11@6h, 11@7h,11@8h,11@9h  Mezzo-i Tardyon: 13@6i,13@7i,13@8i  Mezzo-j Tardyon: 15@7j  (Variants with net hue exist: they have 1 to 5 additional proto-hue (j) pieces, each with a structure similar to this. These tinted Insane quarks can only bind to tinted quarks: Insane, or anti-Insane, etc.). | ---  IP Luxon: 1s  IP Tachyon: 1s  IP Luxon: 1s, 2s, 3s, 4s, 3@1p  IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  ---  Each: IP Luxon: 1s  Each: IP Tachyon: 1s  ---  Each: IP Luxon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Tachyon: 1s, 2s, 3s, 4s, 3@1p  Each: IP Luxon 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 3@1p,3@2p,3@3p,5@2d  Each: IP Tachyon 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 3@1p,3@2p,3@3p,5@2d  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s,  15s,16s,17s,18s,19s,20s,21s,22s, 3@1p,3@2p,3@3p, 3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d, 5@4d, 7@3f  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s, 19s,20s,21s,22s, 3@1p,3@2p,3@3p, 3@4p,3@5p, 3@6p,3@7p, 5@2d,5@3d, 5@4d, 7@3f  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 12s,13s,14s, 15s,16s,17s,18s, 19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s, 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p,5@2d,5@3d,5@4d, 5@5d, 5@6d,5@7d, 7@3f, 7@4f,7@5f, 9@4g  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s, 19s,20s,21s,22s,23s, 24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s, 36s,37s,3@1p,3@2p,3@3p,3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 5@2d,5@3d,5@4d, 5@5d,5@6d,5@7d, 7@3f, 7@4f,7@5f, 9@4g  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 12s,13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s,42s,43s,44s,45s,46s, 47s,48s, 49s,50s,51s,52s,53s,54s,55s,56s, 3@1p,3@2p,3@3p, 3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 3@13p,3@14p,3@15p,3@16p,3@17p, 3@18p, 5@2d,5@3d,5@4d, 5@5d,5@6d, 5@7d,5@8d, 5@9d,5@10d,5@11d, 7@3f,7@4f, 7@5f,7@6f,7@7f,7@8f, 9@4g,9@5g,9@6g, 11@5h  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s, 9s,10s,11s, 12s,13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s,42s,43s,44s,45s,46s, 47s,48s, 49s,50s,51s,52s,53s,54s,55s,56s, 3@1p,3@2p,3@3p, 3@4p,3@5p,3@6p, 3@7p,3@8p,3@9p,3@10p,3@11p,3@12p, 3@13p,3@14p,3@15p,3@16p,3@17p, 3@18p, 5@2d,5@3d,5@4d, 5@5d,5@6d, 5@7d,5@8d, 5@9d,5@10d,5@11d, 7@3f, 7@4f, 7@5f,7@6f, 7@7f,7@8f, 9@4g,9@5g,9@6g, 11@5h  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s,42s,43s,44s,45s,46s, 47s,48s,49s,50s,51s,52s,53s,54s,55s,56s,57s,58s,59s,60s,61s,62s, 63s,64s,65s,66s,67s,68s,69s,70s,71s,72s,73s,74s,75s,76s,77s,78s,  79s, 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p,3@7p,3@8p,3@9p, 3@10p,3@11p,3@12p, 3@13p,3@14p,3@15p,3@16p,3@17p, 3@18p, 3@19p,3@20p,3@21p,3@22p, 3@23p,3@24p,3@25p, 3@26p, 5@2d,5@3d,5@4d,5@5d,5@6d,5@7d, 5@8d,5@9d, 5@10d,5@11d,5@12d, 5@13d,5@14d,5@15d, 7@3f,7@4f, 7@5f,7@6f, 7@7f,7@8f, 7@9f,7@10f,7@11f, 9@4g,9@5g, 9@6g,9@7g,9@8g, 11@5h,11@6h,11@7h, 13@6i  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s,42s,43s,44s,45s,46s, 47s,48s,49s,50s,51s,52s,53s,54s,55s,56s,57s,58s,59s,60s,61s,62s, 63s,64s,65s,66s,67s,68s,69s,70s,71s,72s,73s,74s,75s,76s,77s,78s,  79s, 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p,3@7p,3@8p,3@9p, 3@10p,3@11p,3@12p, 3@13p,3@14p,3@15p,3@16p,3@17p, 3@18p, 3@19p,3@20p,3@21p,3@22p, 3@23p,3@24p,3@25p, 3@26p, 5@2d,5@3d,5@4d,5@5d,5@6d,5@7d,5@8d,5@9d, 5@10d,5@11d,5@12d, 5@13d,5@14d,5@15d, 7@3f,7@4f, 7@5f,7@6f,7@7f,7@8f,7@9f,7@10f,7@11f, 9@4g,9@5g, 9@6g,9@7g,9@8g, 11@5h,11@6h,11@7h, 13@6i  Each: IP Luxon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s,42s,43s,44s,45s,46s, 47s,48s,49s,50s,51s,52s,53s,54s,55s,56s,57s,58s,59s,60s,61s,62s, 63s,64s,65s,66s,67s,68s,69s,70s,71s,72s,73s,74s,75s,76s,77s,78s,  79s,80s,81s,82s,83s,84s,85s,86s,87s,88s,89s,90s,91s,92s,93s,94s, 95s,96s,97s,98s,99s,100s,101s,102s,103s,104s,105s,106s, 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p,3@7p,3@8p,3@9p, 3@10p,3@11p,3@12p, 3@13p,3@14p,3@15p,3@16p,3@17p, 3@18p, 3@19p,3@20p,3@21p,3@22p,3@23p,3@24p,3@25p, 3@26p,3@27p,3@28p, 3@29p,3@30p,3@31p,3@32p,3@33p, 3@34p,3@35p, 5@2d,5@3d, 5@4d,5@5d,5@6d,5@7d,5@8d, 5@9d, 5@10d,5@11d, 5@12d, 5@13d,5@14d,5@15d,5@16d, 5@17d,5@18d,5@19d,5@20d,5@21d, 7@3f,7@4f,7@5f,7@6f, 7@7f,7@8f,7@9f,7@10f,7@11f,7@12f,7@13f,7@14f,7@15f, 9@4g,9@5g,9@6g, 9@7g,9@8g,9@9g, 9@10g,9@11g, 11@5h, 11@6h,11@7h,11@8h,11@9h, 13@6i,13@7i, 13@8i, 15@7j  Each: IP Tachyon: 1s,2s,3s,4s,5s,6s,7s,8s,9s,10s,11s,12s,13s,14s, 15s,16s,17s,18s,19s,20s,21s,22s,23s,24s,25s,26s,27s,28s,29s,30s, 31s,32s,33s,34s,35s,36s,37s,38s,39s,40s,41s,42s,43s,44s,45s,46s, 47s,48s,49s,50s,51s,52s,53s,54s,55s,56s,57s,58s,59s,60s,61s,62s, 63s,64s,65s,66s,67s,68s,69s,70s,71s,72s,73s,74s,75s,76s,77s,78s,  79s,80s,81s,82s,83s,84s,85s,86s,87s,88s,89s,90s,91s,92s,93s,94s, 95s,96s,97s,98s,99s,100s,101s,102s,103s,104s,105s,106s, 3@1p,3@2p,3@3p,3@4p,3@5p,3@6p,3@7p,3@8p,3@9p, 3@10p,3@11p,3@12p, 3@13p,3@14p,3@15p,3@16p,3@17p, 3@18p, 3@19p,3@20p,3@21p,3@22p,3@23p,3@24p,3@25p, 3@26p,3@27p,3@28p, 3@29p,3@30p,3@31p,3@32p,3@33p, 3@34p,3@35p, 5@2d,5@3d, 5@4d,5@5d,5@6d,5@7d,5@8d, 5@9d, 5@10d,5@11d, 5@12d, 5@13d,5@14d,5@15d,5@16d, 5@17d,5@18d,5@19d,5@20d,5@21d, 7@3f,7@4f,7@5f,7@6f, 7@7f,7@8f,7@9f,7@10f,7@11f,7@12f,7@13f, 7@14f,7@15f, 9@4g,9@5g,9@6g, 9@7g,9@8g,9@9g, 9@10g,9@11g, 11@5h, 11@6h,11@7h,11@8h,11@9h, 13@6i,13@7i, 13@8i, 15@7j |

Note: s orbitals have sign of + or -; p orbitals have +r, -r, +b, -b, +g, or -g. Luxons do not contribute significantly to net angular momentum at the infra-matter level, only tachyons do. Proto-photons and charge tardyons have trivial charge (some aligned +, some -). Proto-pions and color tardyons have trivial color, aligned in 1 of the 6 directions. Proto-quarks each have 2 units net color. Net of 2 units of blue is +b, -r, -g, in any p sub-shell. 1 unit of blue + 1 unit of green = 1 unit of anti-red. There may be a proto-particle with trivial angular momentum in one of the 10 d directions, 14 f directions, 18 g directions, etc. Except under special circumstances, the orbital L is opposite the structural L. Symbol --- in the table means no further structure possible. IP (Infra-Photons) are the most elementary pieces. All other structures are built from them and the other 3 types of tachyons. Each quark has the simplest plausible structure shown, most can include additional sub-shells.