

Quark Masses  $Q_A$  and  $Q_B$  with Particle Masses in MeV and Mass Law Exponents  $\gamma$

Neutron **Prototype** Series

<u>Group</u>	<u>Name</u>	<u>Mass</u>	<u>Quarks</u>	<u><math>\gamma</math></u>	<u><math>\Sigma</math> component mass summation</u>
0. Base	n	939.56	939.56	<b>d<sub>A</sub>d<sub>A</sub>u<sub>A</sub></b>	3.9588493 12.136
1. Isoton Isomers	N (1440)	1440±	<b>d<sub>A</sub>d<sub>A</sub>u<sub>B</sub></b>	4.278 42	13.093
	N (1520)	1520±	"	4.3276	"
	N (1535)	1535±	"	4.3366	"
2. Isoton Isomer	N (1650)	1655±	<b>d<sub>A</sub>d<sub>B</sub>u<sub>A</sub></b>	4.27786	15.057
	N (1675)	1675±	"	4.2885	"
	N (1680)	1685±	"	4.29313	"
3. Isoton Isomers	N (1700)	1700±	<b>d<sub>A</sub>d<sub>B</sub>u<sub>B</sub></b>	4.24619	16.014
	N (1710)	1710±	"	4.25153	"
	N (1720)	1720±	"	4.25684	"
4. Isoton Isomers	N (2190)	2190±	<b>d<sub>B</sub>d<sub>B</sub>u<sub>A</sub></b>	4.37143	17.978
	N (2220)	2250±	"	4.3960	"
	N (2250)	2275±	"	4.4061	"
5. Isoton	N (2600)	2600±	<b>d<sub>B</sub>d<sub>B</sub>u<sub>B</sub></b>	4.480 43	18.938

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**$\Delta^{++}$  Series (Paradigm  $\Omega^-$  plan)**

<u>Group</u>	<u>Name</u>	<u>Mass</u>	<u>Quarks</u>	<u><math>\gamma</math></u>	<u><math>\Sigma</math> component mass summation</u>
0. Base	$\Delta(1232)^{++}$	1231	<b>u<sub>A</sub>u<sub>A</sub>u<sub>A</sub></b>	4.885959	5.742
<u>(Low end <math>\Delta</math> mass range)</u>					
1. Isoton	$\Delta(1600)^{++}$	1550	<b>u<sub>A</sub>u<sub>A</sub>u<sub>B</sub></b>	4.9553896	6.699
Isomers	$\Delta(1620)^{++}$	1600	"	4.984 28	"
	$\Delta(1700)^{++}$	1670	X-----X	5.023265	"
(Not in Paradigm, over $\gamma$ limit of 5)					
2. Isoton	$\Delta(1905)^{++}$	1865	X-----X	5.00224	7.656
Isomers	$\Delta(1910)^{++}$	1870	X-----X	5.00468	"
	$\Delta(1920)^{++}$	1920	X-----X	5 019	"
3. Isoton	$\Delta(1930)^{++}$	1900	<b>u<sub>B</sub>u<sub>B</sub>u<sub>B</sub></b>	4.91195	8.613
Isomers	$\Delta(1950)^{++}$	1915	"	4.919115	"
(End $\Delta^{++}$ Series)					

(3 same quarks have only 4 variations of A & B masses.)

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Proton **Prototype** Series

<u>Group</u>	<u>Name</u>	<u>Mass</u>	<u>Quarks <math>\gamma</math></u>	<u><math>\Sigma</math> component mass summation</u>
0. Base	<b>p</b> 938.27	938.27	<b>u<sub>A</sub>u<sub>A</sub>d<sub>A</sub></b> 4.23590	8.939
	<u>(Mid <math>\Delta^+</math> masses fill proton series)</u>			
1. Isoton	$\Delta(1232)^+$ 1232±		<b>u<sub>A</sub>u<sub>B</sub>d<sub>A</sub></b> 4.39123389	9.896
Isomers	(PDG does not separate or show mixed charges beyond $\Delta(1232)$ .)			
2. Isoton	$\Delta(1600)^+$ 1600±		<b>u<sub>B</sub>u<sub>B</sub>d<sub>A</sub></b> 4.545113	10.853
Isomers	$\Delta(1620)^+$ 1630±		" 4.56202	"
3. Isoton	$\Delta(1700)^+$ 1700±		<b>u<sub>A</sub>u<sub>A</sub>d<sub>B</sub></b> 4.6	11.860
4. Isoton	$\Delta(1905)^+$ 1890±		<b>u<sub>A</sub>u<sub>B</sub>d<sub>B</sub></b> 4,6	12.817
Isomers	$\Delta(1910)^+$ 1910±		" 4.6	"
	$\Delta(1920)^+$ 1920±		" 4.6	"
	$\Delta(1950)^+$ 1930±		" 4.564397	"
	$\Delta(1930)^+$ 1960±		" 4.578437	"
	(PDG inverted mass order)			
	(6 forms of 2 sets A/B masses)			
5. Isoton	$\Delta(2420)^+$ 2420±		<b>u<sub>B</sub>u<sub>B</sub>d<sub>B</sub></b> 4.704789957	13.774

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 $\Delta^0$  Series (Paradigm n plan)

<u>Group</u>	<u>Name</u>	<u>Mass</u>	<u>Quarks <math>\gamma</math></u>	<u><math>\Sigma</math> component mass summation</u>
0. Base	$\Delta(1232)^0$ 1233		<b>d<sub>A</sub>d<sub>A</sub>u<sub>A</sub></b> 4.206242	12.136
	<u>(High end <math>\Delta</math> mass range)</u>			
1. Isoton	$\Delta(1620)^0$ 1660		<b>d<sub>A</sub>d<sub>A</sub>u<sub>B</sub></b> 4.40782904	13.093
Isomers	$\Delta(1600)^0$ 1700		" 4.429502428	"
	(Note PDG inverted mass order)			
2. Isoton	$\Delta(1700)^0$ 1750		<b>d<sub>A</sub>d<sub>B</sub>u<sub>A</sub></b> 4.32903098	15,057
Isomers				
3. Isoton	$\Delta(1905)^0$ 1915		<b>d<sub>A</sub>d<sub>B</sub>u<sub>B</sub></b> 4.354593164	16.014
Isomers	$\Delta(1910)^0$ 1920		" 4.35696667	"
4. Isoton	$\Delta(1950)^0$ 1950		<b>d<sub>B</sub>d<sub>B</sub>u<sub>A</sub></b> 4.265777756	17.978
Isomers	$\Delta(1920)^0$ 1970		" 4.275065992	"
	$\Delta(1930)^0$ 2020		" 4.2978802	"
	( PDG inversion of mass order)			
5. Isoton	$\Delta(2420)^0$ 2500		<b>d<sub>B</sub>d<sub>B</sub>u<sub>B</sub></b> 4.444729046	18.935

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Omega Minus Prototype Series

<u>Group</u>	<u>Name</u>	<u>Mass</u>	<u>Quarks</u>	$\gamma$	<u><math>\Sigma</math> component mass summation</u>
0. Base	$\Omega^-$ 1672.5	1672.5	<b>s<sub>A</sub>s<sub>A</sub>s<sub>A</sub></b>	1.739498469	247.401

1. Isoton  $\Omega(2250)^-$  2252± **s<sub>A</sub>s<sub>A</sub>s<sub>B</sub>** 1.923623263 272.124  
 Isomers

(PDG accredited above,  
not accredited Listings below.)

2. Isoton  $\Omega(2380)^-$  2380± **s<sub>A</sub>s<sub>B</sub>s<sub>B</sub>** 1.894789393 296.847  
 Isomers

3. Isoton  $\Omega(2470)^-$  2474± **s<sub>B</sub>s<sub>B</sub>s<sub>B</sub>** 1.857230549 321.57  
 Isomers (End  $\Omega^-$  Series format---

both — & ++ series fragmented.

Starts Strange Quark Series  
 with other Prototypes.)

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Comparison of:  $\Lambda^0$  Series (Paradigm n plan)

<u>P'd'm</u>	<u>Group</u>	<u>PDG Name &amp; Mass</u>	<u>P'd'm</u>	<u>Quarks <math>\gamma</math></u>	<u><math>\Sigma</math> component mass summation</u>
0. Base		$\Lambda^0$ 1115.683		$u_A d_A s_A$ 2.296599848	89.492

(PDG accredited masses & names below do not ID charge, as they do above, where P'd'm charge is shown below)

1. Isoton		$\Lambda(1405)^0$ 1406 $\pm 4$		$u_B d_A s_A$ 2,497439674	90.449
2. Isoton		$\Lambda(1520)^0$ 1519.5 $\pm 1$		$u_A d_B s_A$ 2.54850549	92.413
3. Isoton		$\Lambda(1600)^0$ 1600 +100 -40		$u_B d_B s_A$ 2.585674202	93.420
Isomers		$\Lambda(1670)^0$ 1670 $\pm 10$	"	2.624650643	"
		$\Lambda(1690)^0$ 1690 $\pm 5$	"	2.635 48695	"
4. Isoton		$\Lambda(1800)^0$ 1800 +50 -80		$u_A d_A s_B$ 2.509947627	114.215
Isomers		$\Lambda(1810)^0$ 1810 +50 -60	"	2.51499052	"
		$\Lambda(1820)^0$ 1820 $\pm 5$	"	2.52000502	"
		$\Lambda(1830)^0$ 1830 +0 -20	"	2.524993325	"
5. Isoton		$\Lambda(1890)^0$ 1890 +20 -40		$u_B d_A s_B$ 2.54763288	115.172
6. Isoton		$\Lambda(2100)^0$ 2100 $\pm 10$		$u_A d_B s_B$ 2.627275337	117.136
Isomer		$\Lambda(2110)^0$ 2110 +30 -20	"	2.631594522	"
7, Isoton		$\Lambda(2350)^0$ 2350 +20 -10		$u_B d_B s_B$ 2.722250778	118.093

(These two PDG separated sparse series with the same set of quarks could, under the Paradigm, make 1 full series if merged, with particle quality separation by isomer variation. The estimated groupings shown are not necessarily the ultimate optimums. The Paradigm demonstrates overall that different particle charges and quark sets should not belong in the same series, and that same particle charges and quark sets need not be organized separately. The 8 groups have the 8 forms of 3 A/B masses.)

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**$\Sigma^0$  Series** (also n plan, with same uds quarks per PDG) Mid Mass Range

P'd'm	Group	PDG	Name & Mass	P'd'm	Quarks $\gamma$	$\Sigma$ component mass summation
0. Base		$\Sigma^0$	1192.642		<b>u<sub>A</sub>d<sub>A</sub>s<sub>A</sub></b> 2.357316666	89.492
1. Isoton		$\Sigma(1385)^0$	1383.7 ±4		<b>u<sub>B</sub>d<sub>A</sub>s<sub>A</sub></b> 2.482887022	92.449
						(PDG accredited masses & names below do not ID charge, as they do above, where P'd'm charge is shown below)
						(Grp. 2, <b>u<sub>A</sub>d<sub>B</sub>s<sub>A</sub></b> , has no PDG accredited $\Sigma^0$ listings)
3. Isoton		$\Sigma(1660)$	1660 ±30		<b>u<sub>B</sub>d<sub>B</sub>s<sub>A</sub></b> 2.619183725	93.420
Isomer		$\Sigma(1670)$	1670 +15 -5		" 2.624650643	"
4. Isoton		$\Sigma(1750)$	1750 +50 -20		<b>u<sub>A</sub>d<sub>A</sub>s<sub>B</sub></b> 2.48430539	114.215
Isomer		$\Sigma(1775)$	1775 ±5		" 2.49721680	"
5. Isoton		$\Sigma(1915)$	1915 +20 -15		<b>u<sub>B</sub>d<sub>A</sub>s<sub>B</sub></b> 2.358724554	115.172
Isomer		$\Sigma(1940)$	1940 +10 -40		" 2.57053067	"
6. Isoton		$\Sigma(2030)$	2030 +10 -5		<b>u<sub>A</sub>d<sub>B</sub>s<sub>B</sub></b> 2.596416815	117.136
7. Isoton		$\Sigma(2250)$	2250 +30 -40		<b>u<sub>B</sub>d<sub>B</sub>s<sub>B</sub></b> 2.682668928	118.093

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Low Mass Range

Compariing: **Σ<sup>+</sup> Series** (P'digm p plan)

<u>Group</u>	<u>Name</u>	<u>Mass</u>	<u>Quarks</u> $\gamma$	<u>Σ component mass summation</u>
0. Base	Σ <sup>+</sup>	1189.37	<b>u<sub>A</sub>u<sub>A</sub>s<sub>A</sub></b> 2.3879283	86.295

1. Isoton	Σ(1385) <sup>+</sup>	1382.8 ±4	<b>u<sub>B</sub>u<sub>A</sub>s<sub>A</sub></b> 2.51050353	87.252
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(PDG Named Charged Masses for uds Quarks above, with P'd'm Quarks &  $\gamma$ )  
(Paradigm Group Order below)

(P'd'm, no PDG, charge/mass separations)

2. Isoton	Σ(1660) <sup>+</sup>	1630	<b>u<sub>B</sub>u<sub>B</sub>s<sub>A</sub></b> 2.654827663	88.209
Isomer	Σ(1670) <sup>+</sup>	1665	" 2.674165795	"
3. Isoton	Σ(1750) <sup>+</sup>	1730	<b>u<sub>A</sub>u<sub>A</sub>s<sub>B</sub></b> 2.499684707	111.018
Isomer	Σ(1775) <sup>+</sup>	1770	" 2.520491081	"
4. Isoton	Σ(1915) <sup>+</sup>	1900	<b>u<sub>B</sub>u<sub>A</sub>s<sub>B</sub></b> 2.577190847	111.975
Isomer	Σ(1940) <sup>+</sup>	1900 (Dupl!)	" 2.577190847	"
		(PDG Duplicate)		
Isomer	Σ(2030) <sup>+</sup>	2025	" 2.635187479	"
		(PDG duplication)		
5. Isoton	Σ(2250) <sup>+</sup>	2210	<b>u<sub>B</sub>u<sub>B</sub>s<sub>B</sub></b> 2.70661389	112.932
Isomer		(End Σ <sup>+</sup> Series)		

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High Mass Range

**Σ<sup>-</sup> Series** (P'digm Ω<sup>-</sup> plan)

<u>Group</u>	<u>Name</u>	<u>Mass</u>	<u>Quarks</u> $\gamma$	<u>Σ component mass summation</u>
0. Base	Σ <sup>-</sup>	1197.449	<b>d<sub>A</sub>d<sub>A</sub>s<sub>A</sub></b> 2.329028141	92.689

1. Isoton	Σ(1385) <sup>-</sup>	1387.2±0.5	<b>d<sub>B</sub>d<sub>A</sub>s<sub>A</sub></b> 2.434676197	95.610
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(PDG Named Charged Masses for uds Quarks above, with P'd'm Quarks &  $\gamma$ )  
(Paradigm Group Order below)

(P'd'm, No PDG, charge/mass separ'ns)

2. Isoton	Σ(1660) <sup>-</sup>	1690	<b>d<sub>B</sub>d<sub>B</sub>s<sub>A</sub></b> 2.587002364	98.531
Isomer	Σ(1670) <sup>-</sup>	1685	" 2.584305357	"
		(PDG inverted mass order)		
3. Isoton	Σ(1750) <sup>-</sup>	1800	<b>d<sub>A</sub>d<sub>A</sub>s<sub>B</sub></b> 2.4848192	117.412
Isomer	Σ(1775) <sup>-</sup>	1780	" 2.47464875	"
		(PDG inverted mass order)		
4. Isoton	Σ(1915) <sup>-</sup>	1935	<b>d<sub>B</sub>d<sub>A</sub>s<sub>B</sub></b> 2.528280208	120.333
Isomer	Σ(1940) <sup>-</sup>	1950	" 2.535309117	"
Isomer	Σ(2030) <sup>-</sup>	2040	" 2.576379508	"
5. Isoton	Σ(2250) <sup>-</sup>	2280	<b>d<sub>B</sub>d<sub>B</sub>s<sub>B</sub></b> 2.655789932	123.254
Isomer		(End Σ <sup>-</sup> Series)		

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$\Xi^0$  Series (P'digm n plan)

Group	PDG Name	Mass	P'd'm Name	Mass	Quarks	$\gamma$	$\Sigma$ component mass summation
0. Base	$\Xi^0$	1314.83 ±0.2			<b>u<sub>A</sub>s<sub>A</sub>s<sub>A</sub></b>	1.879079145	166.848
1. Isoton	$\Xi(1530)^0$	1531.8 ±0.32			<b>u<sub>B</sub>s<sub>A</sub>s<sub>A</sub></b>	2.012899569	167.805
(PDG Named Masses <u>for uss/dss Quarks above</u> , with P'd'm Quarks & $\gamma$ ) (PDG Named Masses with Paradigm Mass, Charge ID, and Group Order <u>below</u> )							
2. Isoton	$\Xi(1690)$	1690 ±10	$\Xi(1690)^0$	1680	<b>u<sub>A</sub>s<sub>B</sub>s<sub>A</sub></b>	1.976393854	191.571
3. Isoton	$\Xi(1820)$	1823 ±5	$\Xi(1820)^0$	1818	<b>u<sub>B</sub>s<sub>B</sub>s<sub>A</sub></b>	2.04371524	192.528
4. Isoton	$\Xi(1950)$	1950 ±15	$\Xi(1950)^0$	1935	<b>u<sub>A</sub>s<sub>B</sub>s<sub>B</sub></b>	1.99453805	216.294
5. Isoton	$\Xi(2030)$	2025 ±5	$\Xi(2030)^0$	2020	<b>u<sub>B</sub>s<sub>B</sub>s<sub>B</sub></b>	2.029650903	217.251

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$\Xi^-$  Series (P'digm  $\Omega^-$  plan)

Group	PDG Name	Mass	P'd'm Name	Mass	Quarks	$\gamma$	$\Sigma$ component mass summation
0. Base	$\Xi^-$	1321.31 ±0.13			<b>d<sub>A</sub>s<sub>A</sub>s<sub>A</sub></b>	1.866277904	170.045
1. Isoton	$\Xi(1530)^-$	1535.0 ±0.6			<b>d<sub>B</sub>s<sub>A</sub>s<sub>A</sub></b>	1.987225738	172.966
(PDG Named Masses <u>for uss/dss Quarks above</u> , with P'd'm Quarks & $\gamma$ ) (PDG Named Masses with Paradigm Mass, Charge ID, and Group Order <u>below</u> )							
2. Isoton	$\Xi(1690)$	1690 ±10	$\Xi(1690)^-$	1700	<b>d<sub>A</sub>s<sub>B</sub>s<sub>A</sub></b>	1.972101028	194.768
3. Isoton	$\Xi(1820)$	1823 ±5	$\Xi(1820)^-$	1828	<b>d<sub>B</sub>s<sub>B</sub>s<sub>A</sub></b>	2.024629331	197.689
4. Isoton	$\Xi(1950)$	1950 ±15	$\Xi(1950)^-$	1965	<b>d<sub>A</sub>s<sub>B</sub>s<sub>B</sub></b>	1.995186398	219.491
5. Isoton	$\Xi(2030)$	2025 ±5	$\Xi(2030)^-$	2030	<b>d<sub>B</sub>s<sub>B</sub>s<sub>B</sub></b>	2.012775107	222.412

(End s Baryon Series)

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$\Lambda_c^+$  Series (P'digm p plan)

Group	Name	Mass	Quarks $\gamma$	$\Sigma$ component mass summation
0. Base	$\Lambda_c^+$	2286.46±	$u_A d_A c_A$	0.607122947 1173.525

1.Isot'n (No Grp.)

2.Isoton (No Grp.)

3.Isot'n  $\Lambda_c(2593)^+$  2595.4±  $u_B d_B c_A$  0.71947992 1177.403

4.Isot'n  $\Lambda_c(2625)^+$  2628.1±  $u_A d_A c_B$  0.57194293 1402.025

5.Isot'n  $\Lambda_c(2765)^+$  2765  $u_B d_A c_B$  0.617543305 1402.982  
 [PDG Listed--Not PDG Accredited]

6.Isoton (No Grp.)

7.Isot'n  $\Lambda_c(2880)^+$  2880  $u_B d_B c_B$  0.652742101 1405.903  
 [PDG Listed--Not PDG Accredited]

(. Combined  $\Sigma_c^+$  and  $\Lambda_c^+$  can make an 8 group Series for 3 different quarks, but the same 3.)

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$\Sigma_c^+$  Series (Paradigm p plan)

Group	Name	Mass	Quarks $\gamma$	$\Sigma$ component mass summation
0. Base	(No $\Sigma_c^+$ Grp. 0)			

1.Isot'n  $\Sigma_c(2455)^+$  2452.9±  $u_B d_A c_A$  0.670340034 1174.482

2.Isoton  $\Sigma_c(2520)^+$  2517.5±  $u_A d_B c_A$  0.692481164 1176.446

3.Isoton (No Grp.)

4.Isoton (No Grp.)

5.Isot'n (No Grp.)

6.Isoton  $\Sigma_c(2800)^+$  2792±  $u_A d_B c_B$  0.6251152 1404.946

7.Isoton (No Grp.)

(. Combined  $\Sigma_c^+$  and  $\Lambda_c^+$  can make an 8 group Series for 3 different quarks, but the same 3.)



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 $\Sigma_c^{++}$  Series (Paradigm  $\Omega^-$  plan)

Group	Name	Mass	Quarks $\gamma$	$\Sigma$ component mass summation
0. Base	$\Sigma_c(2455)^{++}$	$2454.02 \pm$	$u_A u_A c_A$	$0.673980669$ 1170.328
1. Isot'n	$\Sigma_c(2520)^{++}$	$2518.4 \pm$	$u_A u_B c_A$	$0.696808465$ 1171.285
2. Isoton	(No Grp.)			
3. Isoton	(No Grp.)			
4. Isoton	(No Grp.)			
5. Isot'n	$\Sigma_c(2800)^{++}$	$2801 \pm$	$u_B u_B c_B$	$0.6307712482$ 1400.742
	(End $\Sigma_c^{++}$ Series)			

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 $\Sigma_c^0$  Series (Paradigm  $n$  plan)

Group	Name	Mass	Quarks $\gamma$	$\Sigma$ component mass summation
0. Base	$\Sigma_c(2455)^0$	$2453.76 \pm$	$d_A d_A c_A$	$0.668924736$ 1176.722
1. Isot'n	$\Sigma_c(2520)^0$	$2518.0 \pm$	$d_A d_B c_A$	$0.690191702$ 1179.643
2. Isoton	(No Grp.)			
3. Isoton	(No Grp.)			
4. Isoton	(No Grp.)			
5. Isot'n	$\Sigma_c(2800)^0$	$2802 \pm$	$d_B d_B c_B$	$0.624414477$ 1411.064
	(End $\Sigma_c^0$ Series Complete)			

$\Xi_c^+$  Series (P'digm p plan)

Group	Name	Mass	Quarks $\gamma$	$\Sigma$ component mass summation
0. Base	$\Xi_c^+$	2467.9±	$u_A s_A c_A$ 0.618525289	1250.881
1. Isoton	$\Xi_c'^+$	2575.7±	$u_B s_A c_A$ 0.656745312	1251.838
2. Isoton	$\Xi_c(2645)^+$	2646.6±	$u_A s_B c_A$ 0.664343566	1275.604
3. Isoton	(No Grp.)			
4. Isoton	$\Xi_c(2790)^+$	2789.2±	$u_A s_A c_B$ 0.577210965	1479.381
5. Isoton	$\Xi_c(2815)^+$	2816.5±	$u_B s_A c_B$ 0.5855488207	1480.338

$\Xi_c^0$  Series (Paradigm n plan)

Group	Name	Mass	Quarks $\gamma$	$\Sigma$ component mass summation
0. Base	$\Xi_c^0$	2471.0±	$d_A s_A c_A$ 0.615169659	1254.078
1. Isoton	$\Xi_c'^0$	2578.0±	$d_B s_A c_A$ 0.653812794	1256.999
2. Isoton	$\Xi_c(2645)^0$	2646.1±	$d_A s_B c_A$ 0.66189314	1278.801
3. Isoton	(No Grp.)			
4. Isoton	$\Xi_c(2790)^0$	2791.9±	$d_A s_A c_B$ 0.576126728	1482.578
5. Isoton	$\Xi_c(2815)^0$	2818.2±	$d_B s_A c_B$ 0.581033145	1488.499

(End both incomplete series, which should each have 8 groups)

$\Omega_c^0$  Series (Paradigm n plan)

	Name	Mass	Quarks $\gamma$	$\Sigma$ component mass summation
0. Base	$\Omega_c^0$	2697.5±	$s_A s_A c_A$ 0.642691574	1331.434

End Incomplete  $\Omega_c^0$  Series.)

(End c Baryons.)

**The Bottom Baryon Series**

$\Lambda_b^0$  Series (Paradigm n plan)

	Name	Mass	Quarks $\gamma$	$\Sigma$ component mass summation
0. Base	$\Lambda_b^0$	5624±	$u_A d_A b_A$ 0.303627028	4028.825

End Incomplete  $\Lambda_b^0$  Series.)

End b Baryons.

(End Baryon Series