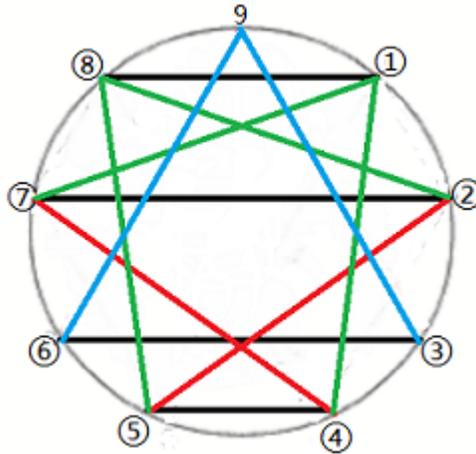
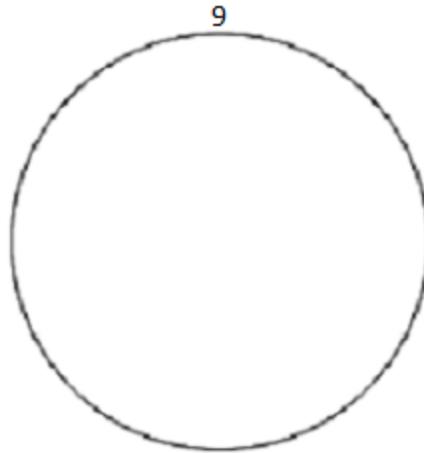


Quantum Mathematics and the Standard Model of Physics Part One:
"The Birth of Siblings"



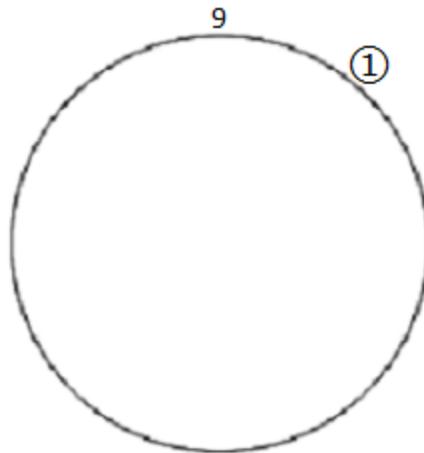
Above, we see a diagram which involves a circular arrangement of the base set of the numbers 1-9, with the various instances of siblings, cousins, and fellow family group members all connected by colored lines. (In this diagram, the instances of sibling numbers are each connected by black lines, the instances of cousin numbers are each connected by red lines, and the instances of fellow family group members are each connected by green lines, with the exception of the two instances of fellow 3,6,9 family group members, both of which are connected by blue lines.) Though in this diagram, all of the individual base numbers with the exception of the 9 are represented as quanta, as will be the case in relation to most of the diagrams which will be seen in this chapter. (The base numbers will be represented as quanta throughout several of these standard model of physics themed chapters, the reasons for which will become clearer as we work our way through this book.) In this chapter, we will be working with the clockwise layout which is seen above (only without the colored lines), in order to determine where all of these numbers originate, and this will lead us into the very beginning of a comparison between the base numbers and the standard model of physics.

To begin, we are going to disregard the colored lines which are contained within the circle which is seen above, as well as the quanta which surround it, which will leave us with a diagram which involves a circle with a 9 above it. This diagram will represent the 9/0 sacred whole, with the 0 aspect of the 9/0 sacred whole constituting the inside of the circle, and the 9 aspect of the 9/0 sacred whole constituting the background on which the circle rests, as is represented numerically at the top of the diagram. (This means that the circle itself represents the 0 aspect of the 9/0 sacred whole, while the page which contains the circle represents the 9 aspect of the 9/0 sacred whole.) This diagram is shown below, with the 9 represented numerically at the top of the circle. (For our current purposes, the locations of all of these numbers, as well as their orientations relative to one another, are completely irrelevant. Therefore, as we yield them, we are going to place them in the same circular orientation as is seen in relation to the diagram which is shown above, since we are already familiar with that simple clockwise arrangement.)



Next, before we begin to yield the base numbers from within the 9/0 sacred whole, we need to reaffirm that the 9 and the 0 are two different aspects of the same overall number, this being the 9/0 unity, as was mentioned in Chapter Zero. This means that both aspects of this duality must be taken into account when dealing individually with either the 9 or the 0, in any of their forms.

With that said, we will begin to yield the other base numbers from within the 9/0 sacred whole. Technically, we could yield any single or multiple digit number in existence from within the 9/0 sacred whole, which is due to the fact that while the 0 aspect of the 9/0 sacred whole involves the concept of nothing, the 9 aspect of the 9/0 sacred whole involves the concept of infinity. Though rather than start with an arbitrarily great number, which would complicate things needlessly, we are instead going to start as simply as we possibly can. In terms of whole numbers, the least number with which we could start would be the 1, which is included in the chart that is shown below. (The ① which is contained within the chart below is oriented to the upper-right of the circle, while the the 9 is represented numerically at the top of the circle, as it will be throughout these diagrams.)



In the diagram which is seen above, we have yielded the 1 from within the 9/0 sacred whole (the manner in which we have achieved this will be explained as we progress). However, a function which simply involves the removal of the 1 from the 9/0 sacred whole would leave us with a minuend which is out of balance, which is due to the fact that the 9/0 sacred whole has its own unique balance which

cannot ever change, as the individual concepts of infinity and nothing do not allow for any imbalance. Therefore, this imbalance must be addressed before we can continue. First, we will balance out what the removal of the 1 has done to the 0 aspect of the 9/0 sacred whole. Then after that, we will address the effects which this removal has had on the 9 aspect of the 9/0 sacred whole.

(In this chapter, we will be working with negative base charged numbers, as they are integral to the balancing out of the 0 aspect of the 9/0 sacred whole. As was seen briefly in Interlude One, for every one of the base numbers, each of which possesses a positive base charge, there is also an opposite negative base charged version of that same base number, with the exception of the neutral base charged 0. This overall base charge is one of three different charges which we will be working with throughout these standard model of physics themed chapters, and will eventually be explained more thoroughly in "Quantum Mathematics and the Standard Model of Physics Part Eight: 'Sibling Similarity and Base Charge' ".)

As was just mentioned, the 0 aspect of the 9/0 sacred whole is currently imbalanced, and this is due to the fact that in yielding the 1 from the 0, we have left a -1 on the inside of the circle instead of the previous 0, as is indicated mathematically below.

$$0 - 1 = -1$$

Above, we see a -1 subtraction function which has left the 9/0 sacred whole as a 9/-1 sacred whole, which is no longer in balance, as was explained a moment ago. In order to maintain the balance of the 9/0 sacred whole, we will need to change the -1 back into the 0, and the simplest manner in which we could achieve this would be to add the 1 to this -1, as is indicated mathematically below.

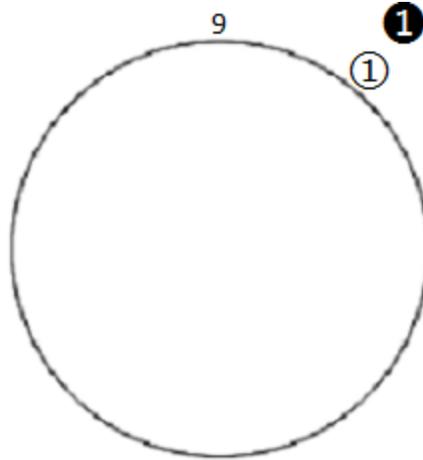
$$(-1) + 1 = 0$$

Above, we see a +1 addition function which successfully restores the balance of the 0 aspect of the 9/0 sacred whole. Though returning the same 1 which we yielded a moment ago simply puts us right back where we started, in that we once again have the 9/0 sacred whole. This means that in order to prevent this imbalance, as well as maintain the 1 which we are trying to yield from the 9/0 sacred whole, we must remove something else in addition to the 1.

Traditional mathematics indicates that a function which involves the addition of a positive base charged number will always yield the same solution as a function which involves the subtraction of a negative base charged version of that same number, and vice versa, in that for example the functions "3+2" and "3 - (-2)" both yield the 5 as a solution number. (This form of behavioral matching is due to the basic traditional mathematical concept of an additive inverse.) This means that if we were to yield the -1 from the 9/0 sacred whole in addition to the 1, we would be able to keep both of these numbers, as well as the balance of the 0 aspect of the 9/0 sacred whole, as is indicated mathematically below.

$$0 - 1 - (-1) = 0$$

The two individual subtraction functions which are seen above happen simultaneously, and leave us with a result which involves the halfway balanced 9/0 sacred whole, as well as the 1 and the -1, as is shown below. (Throughout these standard model of physics themed chapters, negative base charged quanta will be represented by colored circles which contain white numbers, as is the case in relation to the diagram which is shown below.)



The 9/0 sacred whole which is seen above is only halfway balanced, as is indicated by the fact that there are two quanta oriented to the right of the circle, and no quanta oriented to the left of the circle. This imbalance arises due to the fact that while the 0 aspect of the 9/0 sacred whole is balanced by the removal of the -1, the 9 aspect of the 9/0 sacred whole is still unbalanced, and this imbalance will be addressed in a moment.

At this point, we have determined that the 1 can be yielded from the 9/0 sacred whole, as long as we yield the -1 as well, in order to balance out the 0 aspect of the 9/0 sacred whole. The simplest metaphor for this involves an infinite sheet of copper, from which the 1, as a metaphorical penny, has been struck. In this scenario, the 1 would be the penny, and the -1 would be the hole which the penny has left behind in the infinite sheet of copper (with the infinite sheet of copper being the infinite nothing). Basically, in order for us to keep the 1, we have to remove the void which the 1 leaves behind, with this void being the -1. (Also, before we move on, it should be mentioned that the 1 which we have yielded is a non-condensed 1, which can also be considered to be a condensed 1, while the -1 which we have yielded is also non-condensed. This is an important clarification, the reasons for which will be explained as we progress.)

The removal of the void from the 0 aspect of the 9/0 sacred whole is the more intuitive of the two elements which are involved in the maintenance of the unique balance of the 9/0 sacred whole, which is due to the fact that the 0 consists of nothing (technically, an infinity of nothing), and an important characteristic which is displayed by nothing, and therefore the 0 aspect of the 9/0 sacred whole, involves the fact that nothing tends to minimize itself, and therefore any possible effects on it, as is explained below.

The type of void which we are currently working with involves a lack, and in order for this type of void to be removed, something must fill the void, thus eliminating, or perhaps more accurately, neutralizing the void. Though when we are working with a flawed 0, such as the flawed 0 aspect of the 9/-1 sacred whole which we were working with a moment ago, we are working with a void in nothing, and a void in nothing cannot consist purely of nothing, otherwise it would be indistinguishable from the surrounding nothing. However, the very existence of the void is enough to distinguish it as something, as opposed to the surrounding nothing, which technically does not even exist, as will be explained in a

moment. This particular type of void is a localized lack of nothing, which itself is something. (An analogue of this localized lack of nothing involves a vortex which is contained within the infinite nothing.)

One important characteristic of the 0 is that there are no degrees of nothing, while this is not the case in relation to infinity, as was explained in Interlude One. There either is nothing, or there is not, and this lack of nothing would then be something, which could be absolutely anything. Taking this into account, we can determine that as of now, we have started with nothing, specifically the 9/0 sacred whole, which is infinite in its nothingness, from which we have yielded the 1, which is something. Though the removal of the 1 left a void, which we concurrently solved by also removing the -1, which is also something. Since nothing tends to minimize itself, and considering that it is still balanced, that is to say it is without a localized void, nothing is not going to object to our keeping both the 1 and the -1 for ourselves (so to speak). Even though we have these two numbers in our possession, the 0, as nothing, would never lay claim to them, or anything else, for that matter. After our removal of these two numbers, nothing is no more and no less that it was before all of this started, and this is good enough for nothing. After all, from the unique perspective of nothing, nothing itself does not even exist. It never did, nor will it ever.

(A loose analogue which might be helpful to physics minded people involves opposing virtual particles appearing out of the aether for an instant, only to immediately merge and annihilate one another, thereby restoring the balance to the aether before it becomes a problem. Only in this case, since the aether (nothing) does not want them back, instead of annihilating one another, our entangled virtual particles, these being the numbers, or quanta, satisfy the balance by maintaining their existence, without neutralizing by merging back into one another.)

What all of this means is that we have yielded the 1 and the -1 from within the 9/0 sacred whole, while still maintaining the balance of the 0 aspect of the 9/0 sacred whole. However, the act of yielding both the 1 and the -1 has caused an imbalance in the 9 aspect of the 9/0 sacred whole, which means that we now have to balance out the infinite 9 aspect of the 9/0 sacred whole, as is explained below. (To clarify, the infinite 9 which we will be working with throughout the remainder of this chapter is the infinite infinite, which is the infinite aspect of the 9/0 sacred whole.)

In terms of traditional mathematics, the removal of the 1 and the -1 should have balanced out the infinite 9 aspect of the 9/0 sacred whole, as is indicated mathematically below.

$$9 - 1 - (-1) = 9$$

The overall function which is seen above appears to balance out the infinite 9 aspect of the 9/0 sacred whole, though this is not actually the case. This is due to the fact that while the 0 aspect of the 9/0 sacred whole tends to minimize itself, as was mentioned a moment ago, the 9 aspect of the 9/0 sacred whole does not. From the point of view of the infinite 9, the function "9-1-(-1)" yields infinity minus two things, in that the removal of both the 1 and the void which the 1 leaves behind from the infinite 9 leaves infinity lacking, which infinity will always object to (so to speak). The infinite 9 contains absolutely everything, and therefore does not allow for any loss, no matter how insignificant that loss may be. Though a previously mentioned characteristic of the 9/0 sacred whole involves the fact that as will be explained in a moment, in addition to being balanced, the 9/0 sacred whole is also discreet, in that it is comprised of an infinite quantity of lesser infinities, and it is the previously established

concept of lesser infinities which will allow the infinite 9 aspect of the 9/0 sacred whole to maintain its unique balance, as is explained below.

A concept which was touched on in Interlude One involves the fact that the existence of an infinite infinite automatically requires and assures that absolutely everything, in its own unique manner, is infinite. This is due to the fact that the true infinite infinite must be discreet (as opposed to dynamic), in that it must be comprised of a variety of separate pieces. In fact, the infinite infinite must contain an infinite quantity of separate, unique pieces, otherwise one could conceive of this false infinite infinite containing one or more extra pieces, with this conception being a greater infinite infinite. The only true infinite infinite is that which contains an infinite quantity of pieces, with this infinite quantity of pieces growing at the greatest rate possible, with this being an infinite rate. Literally, any possible conception of a greater infinite infinite would have to be accounted for and demonstrated by the true infinite infinite. While an extension of this concept leads us to the conclusion that absolutely everything is uniquely infinite, as a collective series of lesser infinities, with each of these unique lesser infinities being required to be infinite, for reasons which are similar to those which require there to be an infinite quantity of them.

We can use traditional mathematics to demonstrate that the infinite infinite, and therefore the 9/0 sacred whole, consists of an infinite quantity of lesser infinities, with these lesser infinities existing collectively in the balanced form of an infinite quantity of fractally lesser 9s. This can be seen simply by examining the infinite infinite in its numerical form, as numerically speaking, the infinite infinite would be represented as "999,999,999..." . In numerical terms, the true infinite infinite would be a multiple-digit number which involves an infinite quantity of lesser 9s, each of which is unique, in that each of these 9s represents a different value. Within the representative sample "999,999,999...", we can see that every 9 is ten times larger than the 9 which is oriented to the right of it. Furthermore, every inclusion of another 9 on the right side of this multiple-digit number creates a new (though same) low value, and also raises the value of every other previous 9 by a factor of ten. This is explained below using arbitrary colors.

(To clarify, the term "fractal" will be seen sporadically throughout these chapters, always in relation to a quantum mathematical concept which is similar to the traditional concept of fractality.)

In terms of traditional mathematics, the single-digit number 9 has a value of 9. while if we place a **green** 9 to the right of the single-digit number 9, this will yield the multiple-digit number 99, with the new **green** 9 taking over the low value of 9, and the original black 9 raising its value by a power of ten to become 90. Next, if we place a **red** 9 to the right of the multiple-digit number 99, this will yield the multiple-digit number 999, with the **red** 9 taking over the low value of 9, and the **green** and black 9s each raising their respective values by a power of ten, to 90 and 900, respectively. This behavior will continue on to infinity, with all of the previous 9s raising their values by a power of ten with each successive new 9 which is placed to the right of this infinite, and ever growing numerical representation of the infinite infinite.

Taking all of this into account, we can see that unlike the 0, the infinite 9 is not willing to surrender the 1 or the -1. The infinite 9 is equipped to accommodate everything and anything, and would immediately cease to exist in its infinite state if it were ever to relinquish any part of itself. As was explained earlier, from the point of view of the 0 (nothing), neither the 1 or the -1 exist. They never did,

nor will they ever. The 0 is still balanced in its non-existence, and that is the end of that. Though from the point of view of the infinite 9, both the 1 and the -1 are infinite, as unique lesser infinities. This means that the infinite 9 must somehow account for the 1 and -1, as it is incapable of ever relinquishing anything.

The point of all of this is that the infinite 9 is going to want the 1 and -1 back in order to maintain its unique balance, unless we can find an alternate solution to this imbalance. Considering that a similar problem was solved a moment ago by yielding an additional quanta from within the 9/0 sacred whole, it only makes sense for us to attempt to use the same strategy again, in hopes of striking some sort of a balance (or a neutrality) which will allow us to keep the 1 and the -1, along with any other quanta which we may yield. Previously, we had used the polarity which exists between the base charges of the 1 and the -1 in order to restore the balance of the 0. Though in order to restore the balance of the infinite 9, we are going to have to turn to an extension of the overall concept of base charge, this being the polarity which we have been referring to as the "sibling relationship" that exists between various pairs of numbers, as is explained below.

(To clarify, the term "polarity" will be used throughout these chapters, always in reference to some form of an exact opposition.)

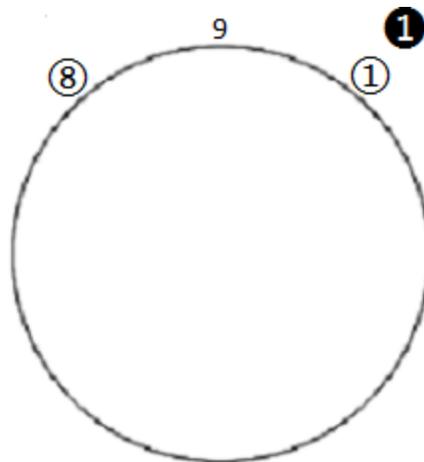
When we remove the 1 from the infinite 9, this leaves behind everything else, as is represented by the function "the infinite 9 - 1 = everything else". While the inverse of this function would be "everything else + 1 = the infinite 9", which implies mathematically that everything else is equal to the 8, as "8+1=9".

Though in this case, the 8 is not literally everything else, as the 8 does not need to be everything else. When we removed the 1 from the infinite 9 aspect of the 9/0 sacred whole, we left the 9/0 sacred whole incomplete on a certain level. Since the 9 aspect of the 9/0 sacred whole is the infinite infinite, it must consist of an ever growing infinite quantity of lesser infinities, as was explained a moment ago. This means that in its balanced (neutral) state, the infinite infinite consists of an infinite quantity of lesser condensed 9s, with these lesser condensed 9s involving non-condensed values of 9, 18, 27, 36, etc. . It is from one of these lesser condensed 9s which we have yielded the non-condensed 1, and this removal has left behind a non-condensed number which condenses to the 8. For example, if we yielded the 1 from the 9, that function left behind the 8, if we yielded the 1 from the 18, that function left behind the 17, if we yielded the 1 from the 27, that function left behind the 26, etc. . This means that when we removed the non-condensed 1, we left the infinite infinite with infinity-1 instances of non-condensed numbers which condense to the 9, along with a lone instance of a non-condensed number which condenses to the 8, and it is this lone condensed 8 which is causing the imbalance.

Though upon further reflection, we can determine that this perceived imbalance does not really exist at all, as the infinite infinite, and therefore the 9/0 sacred whole, did not ever directly possess the 1 which we removed from it. This is due to the fact that the infinite infinite contains an infinite quantity of fractally lesser infinities, all of which are balanced (neutral), in that they all involve non-condensed values which condense to the 9. It is from a single one of these lesser condensed 9s which we yielded the 1, and in doing so, we have left behind a lone condensed 8. We split (unbalanced, de-neutralized, or in much more appropriate terms, charged) a single, unique lesser condensed 9 into the simplest of the four possible dualities which we have been referring to as sibling numbers, these being 1/8, 2/7, 3/6, and 4/5.

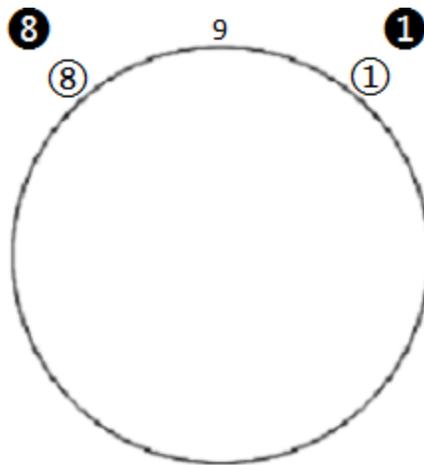
This means that we have not actually removed the 1 from the 9/0 sacred whole, we have instead just imparted it with a positive base charge, and reoriented it away from the remaining condensed 8, which has been imparted with a negative base charge through this function. The function "the 9/0 sacred whole - 1 - (-1)" has caused the ejection of the 1 and the -1 from within the 0 aspect of the 9/0 sacred whole, though these two numbers are still contained within the 9 aspect of the 9/0 sacred whole, as the infinite infinite is all encompassing, therefore there is no location in existence to which we could ever take these numbers which would remove them from within the overall 9/0 sacred whole. This is due to the fact that the infinite infinite contains absolutely everything, and in this infinite infinite state, everything is always, invariably, taken in relation to everything else. This means that from among an infinite sea of lesser condensed 9s, we have actually just split one of these neutral 9s into two separate charged numbers (quanta), these being the 1 and the 8. This means that balancing out the infinite 9 becomes more of a matter of addressing the polar of the 1, this being the condensed 8.

The point of all of this is that in order to maintain the unique balance of the infinite 9 aspect of the 9/0 sacred whole, we need to account for a condensed 8 to go along with the 1 which we have already yielded, as well as the -1 which we have yielded, which will be addressed shortly. To demonstrate the sibling polarity which is displayed between the 1 and the 8, as well as to aesthetically balance out the diagram which we are working with, we are going to place the 8 to the upper left of the circle, across from its sibling, as is shown below.



Above, we can see that with the inclusion of the 8, the diagram is now somewhat balanced, though there is still an obvious imbalance, this being that there are two quanta on the right side of the diagram, and only one quanta on the left side of the diagram.

The aesthetic imbalance which is seen in relation to the diagram which is seen above brings us back to the -1, which has been somewhat overlooked in all of this. The -1 has balanced out the 0 in relation to the 1, while the 8 has balanced out the 9 in relation to the 1. Though this still leaves the issue of balancing out the -1 in relation to the 9, as well as the 8 in relation to the 0, and both of these issues, along with that of the unbalanced aesthetics of the diagram, can be resolved by yielding just one more number (quanta) from within the 9/0 sacred whole, with this number being the -8, as is shown and explained below.

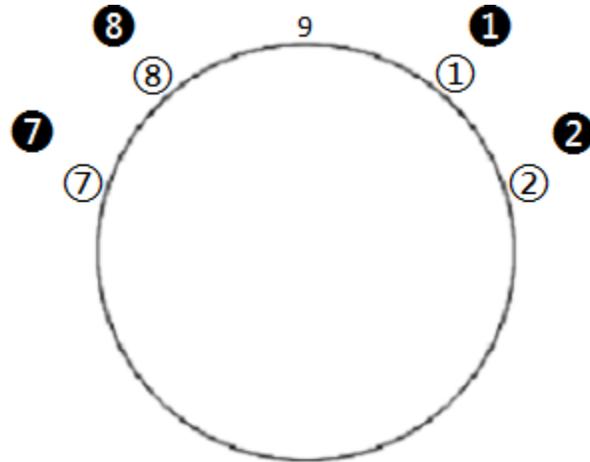


Above, we can see that we have balanced out both of the previously established imbalances, as well as the aesthetics of the diagram, by yielding the -8 from within the 9/0 sacred whole. (The -8 balances out both of the previously established imbalances, in that $(-8)+(-1) = -9$ and $(-8)+8=0$.)

This all means that it is possible to yield the 1 from within the 9/0 sacred whole, though the yielding of the 1 requires the concurrent yielding of an additional -1, 8, and -8, which is required in order to maintain the overall balance of the 9/0 sacred whole. Also, we have determined that these four numbers are all yielded from within the 0 aspect of the 9/0 sacred whole, which has passively discharged them from its depths. While we have also determined that the new location of these four numbers is on the outside of the 0 aspect of the 9/0 sacred whole, and that no matter where this location is, it is still guaranteed to be within the confines of the 9 aspect of the 9/0 sacred whole, which is infinite.

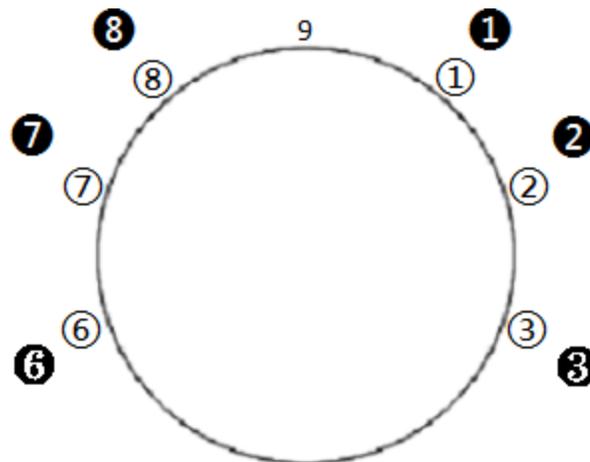
Moving on, we are left with three overall options as to which condensed numbers can be yielded from within the 9/0 sacred whole, as will be seen throughout the remainder of this chapter. Also, it should be noted that throughout the remainder of this chapter, the numbers which are mentioned within the text will be indicated as quanta, with the exception of the 0 and the 9.

Next, we will remove the ② from within the 9/0 sacred whole, which will cause all of the same imbalances as were caused by the removal of the ①, all of which can again be balanced out by using negative base charged numbers and siblings, as can be seen in the diagram which is shown below.



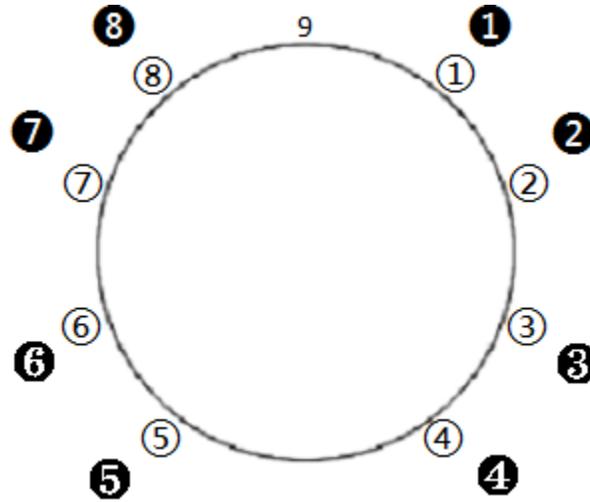
Above, we can see that we have yielded the ② from within the 9/0 sacred whole, which has required us to yield an additional three quanta to go along with it, these being the ⑦, the ②, and the ⑦.

Next, we will remove the ③ from within the 9/0 sacred whole, as is shown below.



Above, we can see that we have yielded the ③ from within the 9/0 sacred whole, which has required us to yield an additional three quanta to go along with it, these being the ⑥, the ③, and the ⑥.

Next, we will remove the ④ from within the 9/0 sacred whole, as is shown below.



Above, we can see that we have yielded the ④ from within the 9/0 sacred whole, which has required us to yield an additional three quanta to go along with it, these being the ⑤, the ④, and the ⑤.

The next four quanta which we could remove from within the 9/0 sacred whole are the ⑤, the ⑥, the ⑦, and the ⑧, all of which have already been removed along with the four quanta which were removed earlier in this chapter, these being the ④, the ③, the ②, and the ①, respectively. While in relation to quantum mathematics, every multiple-digit number in existence, including negative base charged numbers and decimal numbers, can be represented in single-digit (condensed) form using the base numbers 1-9, as was explained in Chapter Zero. This means that any other number in existence is an octave of one of the seventeen numbers which are seen above, sixteen of which are represented as quanta. (This octave behavior does not apply in relation to the 0, as there are no octaves of the 0.)

That concludes this standard model of physics themed chapter. In this chapter, we have determined that the base numbers 1-8 and their negative base charged counterparts originate from within the 0 aspect of the 9/0 sacred whole, yet are still contained within the infinite 9 aspect of the 9/0 sacred whole. This gives us seventeen unique single-digit numbers with which we can work, as the -9, the 0 and the 9 all considered to be the same condensed number, while there is no negative base charged 0, and these seventeen single-digit numbers, as well as their various charges, will be examined throughout the remaining standard model of physics themed chapters. (To clarify, the base charge which is possessed by the 9/0 is a bit more complex than those which are possessed by the other base numbers, the reasons for which will be explained in upcoming chapters.)