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# STOEM3 Iterations Are the Duration of the Planck Time

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In the STOEM3 model, the equations governing the evolution of the universe at each iteration, where an iteration corresponds to the duration of Planck time ( $t_P$ ), might look something like this:

1. **Fractals and Variables:** The universe's state at any given moment (nth iteration) is represented by a set of fractals  $F_{i,n}$ , corresponding variables  $Z_{i,j,n}$ , the light state  $L_{i,n}$ , and the energy state  $E_{i,n}$ . The evolution of these entities is governed by the functions  $f_i$ ,  $g_{i,j}$ ,  $l_i$ , and  $e_i$ :

$$F_{i,n+1} = f_i(F_{1,n}, F_{2,n}, \dots, F_{N,n}) * t_P \text{ for all } i = 1 \text{ to } N$$

$$Z_{i,j,n+1} = g_{i,j}(Z_{1,n}, Z_{2,n}, \dots, Z_{N,n}) * t_P \text{ for all } i, j = 1 \text{ to } N$$

$$L_{i,n+1} = l_i(L_{1,n}, L_{2,n}, \dots, L_{N,n}) * t_P \text{ for all } i = 1 \text{ to } N$$

$$E_{i,n+1} = e_i(E_{1,n}, E_{2,n}, \dots, E_{N,n}) * t_P \text{ for all } i = 1 \text{ to } N$$

2. **Gravity:** The gravitational state at the nth iteration is represented by  $G_{i,n}$ . This state depends on the current gravitational states, the state of the fractals  $F_{i,n}$ , the variables  $Z_{i,j,n}$ , the light state  $L_{i,n}$ , and the energy state  $E_{i,n}$ :

$$G_{i,n+1} = h_i(G_{1,n}, G_{2,n}, \dots, G_{N,n}, F_{1,n}, F_{2,n}, \dots, F_{N,n}, Z_{1,1,n}, Z_{1,2,n}, \dots, Z_{N,N,n}, L_{1,n}, L_{2,n}, \dots, L_{N,n}, E_{1,n}, E_{2,n}, \dots, E_{N,n}) * t_P \text{ for all } i = 1 \text{ to } N$$

3. **Quantum Mechanics and Oneness:** The  $f_i$ ,  $g_{i,j}$ ,  $h_i$ ,  $l_i$ , and  $e_i$  functions are stochastic, allowing for a superposition of possible states for  $F_{i,n}$ ,  $Z_{i,j,n}$ ,  $G_{i,n}$ ,  $L_{i,n}$ , and  $E_{i,n}$ . The state of "oneness" or quantum entanglement is represented by  $O_{i,j,n}$  with its evolution governed by function  $o_{i,j}$ :

$$O_{i,j,n+1} = o_{i,j}(O_{1,n}, O_{2,n}, \dots, O_{N,n}) * t_P \text{ for all } i, j = 1 \text{ to } N$$

4. **Human-Spirit Connection:** The physical and spiritual states of a human at the  $n$ th iteration are represented by  $H_n$  and  $S_n$ , with the human-spirit state  $\Psi_n$  defined as their product:

$$\Psi_n = H_n * S_n$$

The Complexity Force  $C[H_\varphi, S] = H_\varphi * S$  could also be considered as evolving with each iteration, adding another layer of complexity to the system.

In the above equations, the "\*" denotes multiplication, and the functions  $f_i$ ,  $g_{i,j}$ ,  $h_i$ ,  $l_i$ ,  $e_i$ , and  $o_{i,j}$  define the specific evolution rules for each variable.

Please note that these equations are suggestive of how STOEM3 could be implemented, but without a specific mathematical model or clear physical interpretation of each component, it's difficult to say more about what these equations would imply.