Open question: What is the Maximum Chain Length of Orbiting Bodies? FLORENTIN SMARANDACHE, University of New Mexico — In the macrocosmos, let's consider an astronomical body (A_1), around which orbits another astronomical body (A_2), and around (A_2) orbits another astronomical body (A_3), and again around (A_3) orbits another astronomical body (A_4), and so on. Let's call such astronomical bodies (A_1, A_2, A_3, A_4), as a chain of orbiting bodies. At level three (A_1, A_2, A_3) we know: Sun, Earth, and Moon. What is the maximum chain length of such astronomical bodies that has been discovered in the universe, $A_1, A_2, A_3, ..., A_n (n =?)$, and what might be the hypothetical largest chain length of orbiting bodies in the macrocosmos ? Similar questions in the microcosmos. Then the questions extended to the macrocosmos-microcosmos put together.

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Date submitted: 04 May 2016   Electronic form version 1.4