



Presidents Message – July, 2012

According to the Associated Press, on Wednesday, July 4th, the European Center for Nuclear Research, or "CERN", the "Organisation européenne pour la recherche nucléaire", which means "We Frenchmen who microwave croissants", announced that they had "found the missing cornerstone of particle physics, the "God Particle." The scientists are saying this subatomic particle is consistent with the long sought "Higgs Boson." (Not to be confused with "Clyde's Bison", which is not subatomic).

"The Higgs Boson, which until now has been a theoretical particle, is seen as the key to understanding why matter has mass, which combines with gravity to give an object weight. Now scientists have seen something that may be the particle they've been looking for and can put that knowledge to future use". (Associated Press)

CERN's atom smasher, the Large Hadron Collider (LHC), is a gigantic scientific \$10 Billion instrument near Geneva, where it spans the border between Switzerland and France. The LHC has been creating high-energy collisions of protons to investigate dark matter and the creation of the universe, as associated with the commonly believed "Big Bang."



Two separate and independent teams at CERN have said that they both have seen the new (to us) subatomic particle. The two research teams are "CMS" composed of 2,100 scientists, and "Atlas" with 3,000 scientists. Can you imagine the "Geek Level" in the cafeteria at lunch? They reported that it is too early to say whether or not the particle is the "standard model" Higgs Boson, which was predicted by Scottish physicist Peter Higgs in the 1960s. The name "God Particle" was coined by physicist Leon Lederman, a Nobel Prize winner, which denotes its importance in explaining how the subatomic universe got started.

Our very own Alice Sady, WNC & Williams College, who has been a student lab assistant at the Observatory, is in an intern position at the CERN site. We are very proud of her, and look forward to hearing about her experiences. Professor Collier, Observatory Director and Vice-President of our Astronomical Society, will help us understand all this in his lecture at our meeting next Tuesday evening.

Mike Thomas

June, 2012

June 2012 Meeting Minutes

- No Minutes
- No membership Meeting for June 2012

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Monthly Membership Meeting 7:00PM, Tuesday, July 17, 2012 Guest Speaker:

Professor Robert Collier
Presents:
"Cosmic Rays to the God Particle, an Overview"

Events Calendar

~ July 2012 ~						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3 Full Moon 	4	5	6	7 Star Party
8	9	10	11 Moon Last Qtr 	12	13	14 Star Party
15	16	17 <i>WNAS Meeting 7pm JCDO</i>	18	19 New Moon 	20	21 Dark Skies Star Party
22	23	24	25	26 Moon 1 st Qtr 	27 *Southern Delta Aquarids meteors	28 Star Party *Southern Delta Aquarids meteors
29	30	31	Notes: *The Delta Aquarids can produce about 20 meteors per hour at their peak. The shower peaks on July 28 & 29, The radiant point for this shower will be in the constellation Aquarius. Best viewing is usually to the east after midnight.			

~ August 2012 ~						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
August 5 th /6 th Curiosity Rover to land on Mars http://www.space.com/16465-mars-rover-curiosity-red-planet-landing.html			1	2 Full Moon 	3	4 Star Party
5 Curiosity Rover Landing on Mars?	6 Curiosity Rover Landing on Mars?	7	8	9 Moon Last Qtr 	10	11 Star Party
12 Perseids meteors	13 Perseids meteors	14	15	16	17 New Moon 	18 Dark Skies Star Party
19	20	21 <i>WNAS Meeting 7pm JCDO</i>	22	23	24 Moon 1 st Qtr  *Neptune at opposition	25 Star Party
26	27	28	29	30	31 Full Moon (Blue) 	Notes: *Neptune's closest approach to Earth