



To Be Tested... If the Sun contributes a large fraction of the cosmic radiation, then cosmic radiation levels should be higher during the day than at night.

















Secondary Cosmic Radiation

Background

Some Decay Particles

Particle	Lifetime (seconds)	Composition
neutron	881.5	3 quarks (1 up and two down quarks)
pion	2.6×10 ^{- 8}	2 quarks (up or down quark and an anti up or down quark)
muons	2.2×10 ⁻⁶	Elementary particle

Muons are the usual form of cosmic radiation that reaches the Earth.

http://en.wikipedia.org/wiki/Muon#Muon_decay











Cosmic Maximus?

The Test

Using a Scintillator Counter, take three different sets of cosmic radiation data: at 9:00PM, 5:00AM, 1:00PM
Several three minute test samples will be taken during each interval.



View from the test site



The Scintillator Counter



View of one of the scintillating panels wrapped in aluminum foil







Cosmic Consistentus?

Conclusion

We cannot conclude that the cosmic radiation levels are higher during the day than they are during the night. This agrees with other sources that suggest very little (0.2% Blanco, et.al.) differences exist between the amounts of cosmic radiation reaching the Earth at various times of the day.



http://www.eurekalert.org/multimedia/pub/2413.php?from=86777 http://oldweb.ct.infn.it/~rivel/cosmic/Documents/Publications/NOVA_Publisher.pdf



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