

Re: Radiation above gamma ray?

Source: <http://sci.tech-archive.net/Archive/sci.physics/2004-10/5506.html>

From: Gregory L. Hansen (glhansen_at_steel.ucs.indiana.edu)

Date: 10/19/04

Date: Tue, 19 Oct 2004 15:30:05 +0000 (UTC)

In article <cl3a6a\$e5n\$1@reader1.panix.com>,

Paul Ciszek <nospam@nospam.com> wrote:

>

>In article <6bd4a4d3.0410190247.765c07e3@posting.google.com>,

>Pascal Damian <pascaldamian@icqmail.com> wrote:

>>nospam@nospam.com (Paul Ciszek) wrote in message

>>news:<cl1ptv\$ml\$1@reader1.panix.com>...

>>> In article <6bd4a4d3.0410180724.2bb1ce45@posting.google.com>,

>>> Pascal Damian <pascaldamian@icqmail.com> wrote:

>>> >Is electromagnetic radiation with wavelength shorter than the gamma

>>> >band impossible theoretically, or is it just because we cannot observe

>>> >them?

>>>

>>> According to one source, any photon with more than 100keV of energy is

>>> a gamma ray--whether it can be observed or not. If anyone has coined

>>> a term for a higher energy region of the electromagnetic spectrum, I

>>> have not heard of it. So, by default everything from some lower bound

>>> on upward is called a gamma ray, and there is by definition no such

>>> thing as "radiation above gamma rays".

>>

>>Ah, thanks for the clear-up. So similarly there's no "lower than radio waves".

>

>There are systems that use audio (and lower?) frequency EM waves for

>comunication. The people who design, build, or use these systems might

>have specific names for parts of the spectrum below what is usually

>considered radio waves.

http://www.wordiq.com/definition/Super_low_frequency

ULF – Ultra Low Frequency, 300 Hz to 3000 Hz

SLF – Super Low Frequency, 30 Hz to 300 Hz

ELF – Extremely Low Frequency, 3 Hz to 30 Hz

Power line emissions are SLF. Submarines can use ELF to transmit while under water, but it's slow going.

I guess the radio spectrum isn't considered to go lower than 3 Hz.

sci.physics: Re: Radiation above gamma ray?

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"The polhode rolls without slipping on the herpolhode lying in the invariable plane." -- Goldstein, Classical Mechanics 2nd. ed., p207.