

Radiant. Positive and negative particles.

<https://www.youtube.com/watch?v=o85Km4AZiBs>

by Dmitri Maksimov

0:00

Hello everyone,

Let's repeat today experiment shown by Roman Karnoukhov (akula0083)

about charging capacitor with static electricity surrounding Tesla coil

Let's see how Tesla coil works, is this true

Later this experiment was replicated by Romanov

This setup is build in a similar way

Main purpose of experiment is confirm that this is true

and see what happen in the space in this particular point

one can say and assembled this

0:30

we have a test stand, Tesla coil tuned to 750 kilohertz

system works in the burst mode

the frequency fixed and length of bursts can be adjusted

next, we have a pickup capacitor and a voltmeter

which shows the voltage across a capacitor,

we also have a generator which has burst mode

and there power supply where we can see supply voltage and current

1:02

and oscilloscope

which, in fact, show what is happening in the system

let's start the system

a little increase duty cycle to make it more powerful

and as a result, space get ionized and so let's say positive particles knocked out

1:42

we have 12 volts

on the scope we see bursts

frequency about 187 hertz

2:20

now it is interesting to see

what happen if we change duty cycle of the bursts,

for this we will change the system parameter

here we see a negative radiant

voltage going down

here it is ruining similar how Romanov showed

3:07

now we see negative particles ionizing air

this give us some food for thoughts

thank you everyone for watching