Space observation fast geophysical phenomena (earthquakes, tsunamis, volcanoes)

Specific Seminar – Curriculum 2

June 19, 2024, 4.00 p.m.

Speaker:

Prof. Roberto Battiston – University of Trento, Department of Physics

Abstract:

The Earth ionospheric and magnetospheric layers are sensitive to various kind of signals coming from below (originated from geophysics and meteorology) and from above (connected to solar physics and astrophysics). The CSES satellite, operating at 500 km with a suite of 9 different instruments, is a state-of-the-art observatory able to detect various type of signals due to electromagnetic waves, electronic plasmas and low energy particles. I will discuss example of how it is possible to extract information of physical processes of interest, using the Earth surrounding layers as a giant detector to study large scale phenomena.

Online attendance:

https://unitn.zoom.us/j/82897676894?pwd=NVhibk5FMGdKWXJoNkxIa0hpNnI5dz09

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Prof. Vincenzo Carbone
University of Calabria – Department of Physics
vincenzo.carbone@fis.unical.it

National PhD in Space Science and Technology - Secretariat
+39 0461 281504
+39 0461 283566
dn_sst@unitn.it