

## Fractal and complex network analysis of time series

**Specific Seminar – Curriculum 2** 

2023, September 22, 4 p.m.

## Speaker:

Prof. Víctor Muñoz, University of Chile - Department of Physics

## **Abstract:**

Complexity measures can lead to new insights into various geophysical and astrophysical phenomena, such as revealing universalities and features not evident when analysing them with more traditional techniques. On the other hand, time series are the basic information that we get from many systems, so it is interesting to consider how complexity measures can be applied to time series related to physical phenomena, and what kind of information they yield on the underlying dynamics. In these two lectures, we will present various studies where fractal dimension or complex network analyses have been successfully used to study phenomena of geophysical, space, and astrophysical interest such as seisms, MHD turbulence, variable stars and geomagnetic activity.

## **Online attendance:**

Entra nella riunione in Zoom https://unitn.zoom.us/j/87879404346?pwd=SFc4aVZQQTdGLzNFcmw3N0trQ21pZz09

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