



Dipartimento di Strutture per l'Ingegneria e l'Architettura (DiSt)

Nell'ambito delle attività del **Corso di Dottorato in
Ingegneria Strutturale, Geotecnica e Rischio Sismico**

29-30 settembre, 6-7 e 13-14 ottobre 2021
ore 11:00-13:00 e 15:00-17:00

Prof. Matteo Picozzi

(Dip. Fisica - Università degli Studi di Napoli Federico II)

terrà un **corso breve** (24 ore, 3 CFU) dal titolo:

Advanced seismology

The course addresses theoretical models and observations related to earthquakes; introducing different scales of observation of seismic phenomena: the size of the source, the spatial extent of the monitoring networks, and the frequency/wavelength range of the seismic signals. The "point-source" approximation of the earthquake source will be used to illustrate the concepts and estimation methods of location, magnitude, seismic moment, and focal mechanisms; all deriving from this simplified but effective representation of the seismic phenomenon. Furthermore, dynamic/kinematic rupture models will be illustrated to discuss the modalities of nucleation, propagation, and arrest of an earthquake rupture, aspects that should be taken into account to precisely predict the strong ground shaking produced by potentially destructive events. Finally, the course will provide an overview of the basics of real-time seismology - the new frontier of research in earthquake science.

Via Claudio, 21 – edificio 6
aula Manfredi Romano (1° piano)

Iscrizione all'indirizzo phd.dist@unina.it