

June 7

11.45 – 12.45

NO C 44

SAGE - The Student Association of Geophysicists at ETH presents:

The benefit of hindsight in observational science

On seismic interferometry and how to record an earthquake after it has occurred

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ABSTRACT

Usually seismic interferometry is used to perform seismic tomography of the Earth's subsurface using only background vibrational noise. Seismometers can be turned into virtual (imagined) sources of energy that produce real seismograms. Real energy sources (e.g., earthquakes or active-source seismic shots) can also be turned into virtual seismometers perhaps deep inside the solid Earth. Interferometry also provides novel schemas for computational modelling of acoustic, elastic and electromagnetic phenomena, and embodies completely new Optical Theorems of Physics.

see www.eeg.ethz.ch/SAGE for entire abstract

... and learn more about the new Student Chapter

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