

# SOLID EARTH SEMINARS

## EARTH'S ROCK'N'ROLL: MEASURING ROTATIONAL MOTIONS IN GEOPHYSICS AND GEODESY



WHAT'S THIS  
ABOUT?

Seismology is a science based on measuring ground motions using seismometers. They measure three components of translational motions. But is that all the ground does? No, there are other motion components. In this talk we report on quite a revolution that is going on at the moment in seismic instrumentation with applications ranging from earthquake physics, seismic tomography, volcanology, earthquake engineering to planetary seismology. The key to these new applications is optical technology making use of laser light and relativistic effects to get hold of the so-called wavefield gradient (i.e., strain and rotations). We present basic concepts and results from some pilot experiments.

ZOOM




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**Wednesday: 13:00**

**PASS: SES\_RG234**

 <https://videoconf-colibri.zoom.us/j/89018419156?pwd=ZXVpcGV0Q2JaUVFnRWwzaXVtNWWhPZz09>