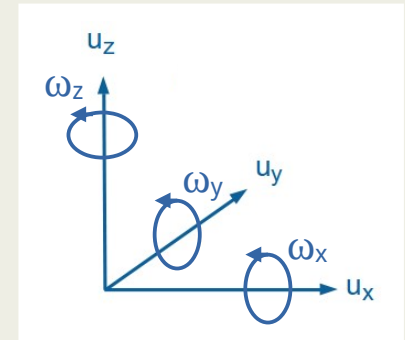


S. Donner¹, P. Gaebler¹, J. Lehr^{1, 2}, M. Hobiger¹, and N. Gestermann¹

¹ Bundesanstalt für Geowissenschaften und Rohstoffe (BGR) Hannover; ² now at: GFZ Helmholtz-Zentrum für Geoforschung Potsdam

P3.1-353

- OSI as the final component of the CTBT verification regime goals for an effective inspection under time pressure. It is a major operation requiring a huge effort in preparation and implementation.
- Recording the full, 6-component wavefield (instead of only 3-components of translation) can help to reduce the effort in terms of hardware, maintenance, human power, time, and money.
- Rotational seismology is on the verge to revolutionise seismology in almost all subfields:
 - determining shallow sub-surface structural models
 - (single station) event localisation
 - dynamic tilt correction of horizontal translations
 - wave field decomposition (polarisation analysis)
 - inversion for seismic moment tensor
 - coherent-noise suppression in active seismic experiments
 - ...



vertical rotation rate



transverse acceleration

