

## Rotation Data from Ring Laser Gyroscopes: online visualisation and processing

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### ABSTRACT

Currently there are three operating rotational sensors world-wide with sufficient sensitivity to be useful in broadband seismology.

These are (1) Wettzell, Germany;  
(2) Christchurch, New Zealand;  
(3) Pinon-Flat Observatory, California.

At present, there are severe obstacles to efficiently visualise, process and analyse the incoming data compared to the well established standards in seismic networks. The aim of this project is to introduce visualisation standards, data formats, transfer protocols, and a data base structure that allows near-real time investigation and easy rapid post-processing of event (and continuous) data from those sensors. These sites are also used as an example of the more and more common multi-component observations that require adaptation of common data exchange formats and the development of appropriate processing tools that can exploit the additional possibilities of the various collocated sensor technologies. This infrastructure shall be used to investigate the quality of observations at the various sights and whether the observations are compatible with each other and the collocated observations of translations with standard seismometers.