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Rotation component of seismic signals

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The rotation components of seismic ground motion can be radiated from the source, or can be generated when seismic waves spread through anisotropic (micromorphic) rock massif or rise as the response of building structures on dilatational excitation. In order to experimental study these questions, new sensor of rotational ground motion was constructed. Sensor for recording of week teleseismic waves is based on differential compensated electric capacitor mounted on the balanced fly-wheel. Amplitudes of seismic ground motion are recorded in a triggered regime and stored on hard disc of PC. The time of events is taken from PC clock synchronised by the time signal of GPS.