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## DK Seminar

January 13, 2015, 14:15 - 15:45  
University of Vienna  
Oskar-Morgenstern-Platz 1, HS 2.

**Ronald Quirchmayr**

University of Vienna

### Traveling water waves under the influence of the Coriolis effect

We discuss some aspects of the behavior of the velocity field and particle trajectories beneath periodic traveling surface waves over a flat bed in a flow without underlying currents. The system under study consists of the governing equations for equatorial ocean waves, where Euler's equation of motion is suitably adjusted in order to account for the influence of the earth's rotation, the so-called Coriolis effect.