

Report on the School and Workshop Dynamics of Inertial Particles: From Ocean and Atmosphere to Planets

This workshop very successfully fulfilled its goal, namely, bringing together scientists from various disciplines who investigate the advection of active and passive finite size particles in fluid flows. Scientists from physics, meteorology and oceanography were united at the school and the conference. Theorists as well as experimentalists contributed didactic lectures and scientific talks. One overwriting success, was that it mixed scientific communities - many scientists met for the first time and this lead to extremely stimulating discussions across the several disciplines.

All participants learned a lot from each other by following talks from other areas of research. Many participants told us that they very much appreciated the very high level of the talks during the conference including the contributed talks given by young researchers. The discussions after the talks, in the breaks and especially during the school led to new ideas how, e.g., to use methods developed for the description in raindrop formation to model the aggregation of marine aggregates. Particularly these analogies in modeling approaches resulted in a cross-fertilization of the different fields of research. The success of this event in initiating interdisciplinary research can be measured in the future by papers whose authors started a collaboration during this one month program.

The students staying over the entire period on this International School and Workshop (about 20 in number) presented their work several times. In the beginning and at the end of the workshop they had to give short talks about their work and most of the students also presented a talk or a poster at the conference in the third week of the event. Comparing the short presentations of the students at the beginning and at the end revealed that some of them achieved very good new results based on the extensive discussions with the lecturers, organizers and invited speakers at the conference. Only during the short time of this school considerable progress has been made by Anton Daitche (Münster, Germany). The organizers gave an award to Jöran März (Oldenburg, Germany) as the most active student during the lectures of the school. Particulary, students at the beginning of their PhD work benefitted most from the comprehensive overviews given by the lecturers.