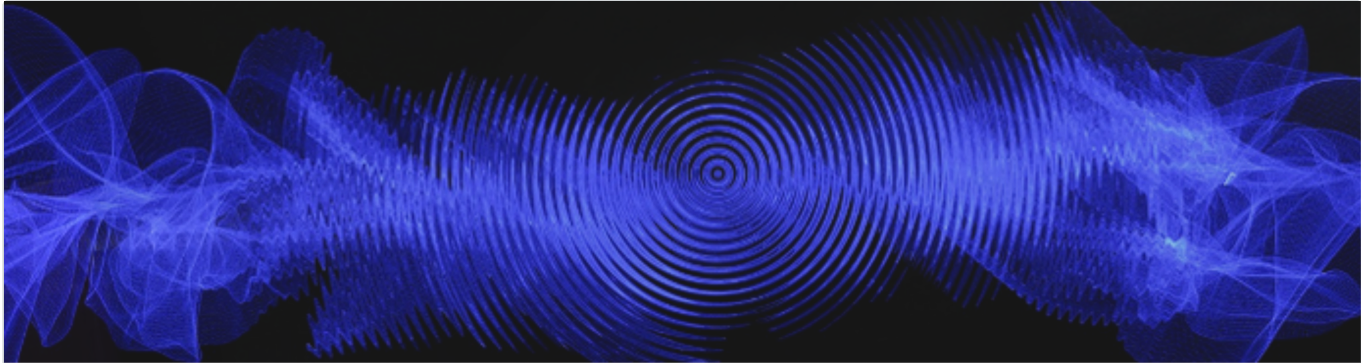


## WORKGROUP FOR MULTIPHASE FLOWS



### **Multiphase Flows**

In this research area, microprocesses, which are carried out at the particle level (e.g. interaction of the particles with turbulent flows, particle impacts, agglomeration, bubble coalescence and -decay as well as drop collisions and coalescence), are analyzed using both experimental and numerical methods, to enable a corresponding theoretical description and modeling.

Particle-laden flows, particle deposition, particle separation

- ▶ Analysis and modelling the coating of solid particles

more...

Atomisation and sprays

- ▶ Droplet jet lyophilization - functional solid particles
- ▶ Development of agglomerate structures

more...

Bubble flows

- ▶ Modelling the influence of bubble dynamics on motion, mass transfer and chemical reaction
- ▶ Modeling a bubble column
- ▶ Aerated stirred tanks

more...

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