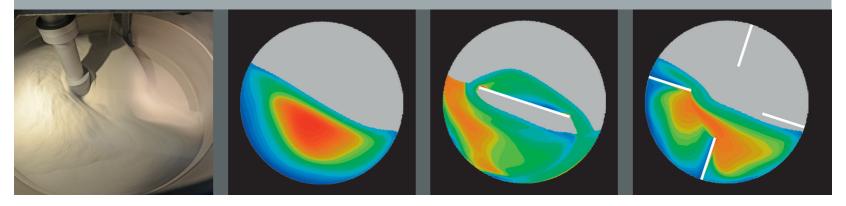


FRAUNHOFER INSTITUTE FOR INDUSTRIAL MATHEMATICS – KAISERSLAUTERN





## SIMULATION OF SEGREGATION AND MIXING PROCESSES IN PARTICLE FLOWS

- Segregation of different particle sizes (Brazil Nut Effect)
- Dynamic calculation of local quantities
  - Density distribution for each particle phase
  - Velocity field
  - Pressure distribution
  - Shear forces
  - Energy dissipation
- Virtual evaluation of
  - Quality of separation or mixing processes
  - Mixer device design
  - Mixing times

## Contact

Dr. Konrad Steiner Phone +49 631 31600-4342 konrad.steiner@ itwm.fraunhofer.de www.itwm.fraunhofer.de