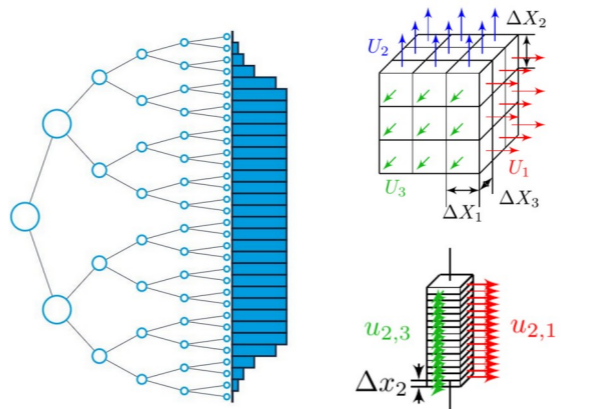


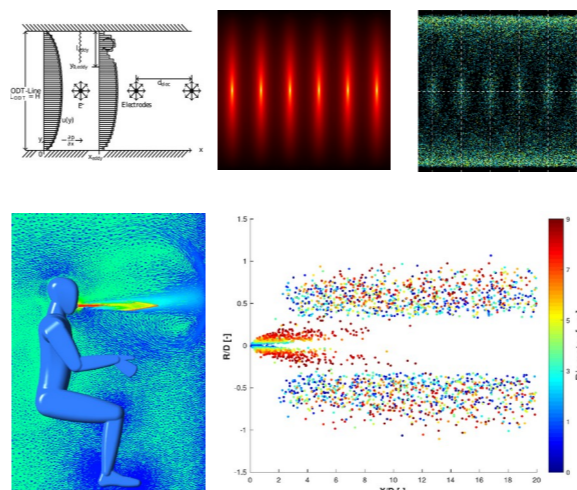
KEY COMPETENCE AND FOCUS

- Development, analysis, and application of efficient stochastic and multiscale approaches in CFD
- Modeling of turbulent single and multiphase flows



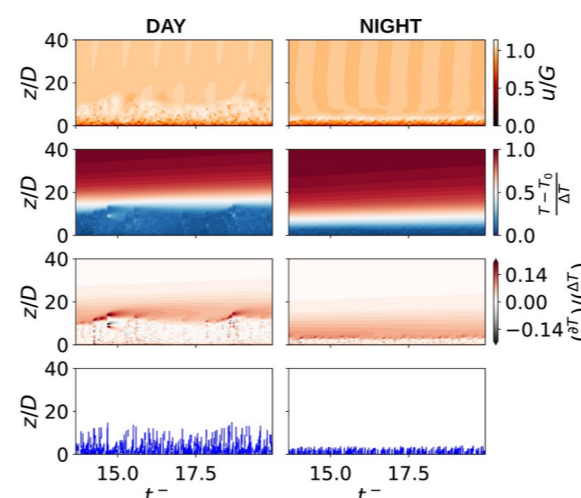
RESEARCH AREAS AT THE CHAIR OF NUMERICAL FLUID AND GAS DYNAMICS

- Chemically reactive flows
- Flows with heat and mass transfer
- Complex mixing
- Boundary layers
- Electrohydrodynamic turbulence
- Modeling and prediction of turbulent noise
- Geophysical flows



RESEARCH ACTIVITIES OF THE YIG WITHIN THE ENERGY INNOVATION CENTER (EIZ) - SCL

- Heat transfer in heat pumps and heat pipes
- Wind fluctuations in atmospheric boundary layers
- Multiphysics boundary layers in catalytic reactors



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COSYS

Electric Power Systems Lab
EPS

High Power Grid Converter Lab
HPGC



Energy Economics Lab
EECON

Energy Storage and Conversion Lab
ESC

Scientific Computing Lab
SCL

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